

xEnergy Main



Design-verified Switchgear System Catalogue 2014



Powering Business Worldwide



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xEnergy power distribution

System description



xEnergy product features

- Enclosures for side-by-side and stand-alone cabinets
- Degree of protection IP31 or IP55
- Main busbars up to 5000 A
- 2 Main busbar systems are possible in each section
- Clear separations into functional areas from form 1 to form 4 to provide even better protection for people and equipment
- Widths of 425, 600, 800, 850, 1000, 1100, 1200 and 1350 mm
- Height 2000 mm
- Color RAL 7035 (other colors upon request)
- Network types TN-C, TN-C-S, TN-S, TT, IT
- Type-tested switchgear assemblies in accordance with IEC/EN 61439
- Optimized for 3 and 4 pole switchgear from Eaton

XP - Power sections

Incoming supplies, outgoing and couplings up to 5000 A

- cable connection from the top and bottom
- busbar positions rear-mounted - bottom/top mounted or running under the top panel
- section height 2000 mm / section depth 400/600/800/1000 (1000 = 800+200) mm
- internal separations up to Form 4



Air circuit breakers IZM series 26 and series IZMX16/40

- widths of 425/600/800/1000/1100/1200/1350 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 630 - 5000 A
- Form 4
- IP31, IP55 with IZM-XDT protective cover
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated from outside
- suitable for switchgear with remote operation

Compact circuit breakers NZM3/4 in Form 4

- widths of 425/600/800 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 250 - 630 A (NZM3)
- 630 - 1600 A (NZM4)
- Form 4
- IP31/55
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated from outside
- installation of two switching devices in one section is possible
- suitable for switchgear with remote operation



Compact circuit breakers NZM4 in Form 2

- widths of 425/600/800 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 630 - 1600 A
- Form 2
- IP31/55
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated behind the door as high as the section
- suitable for switchgear with remote operation

XF - Outgoing sections - Fixed design

- Outgoers with circuit breakers PKZ, NZM, FAZ, switch fuse units and fuse switch disconnectors up to 630 A
- for busbar positions at the rear - top/bottom or running under the top panel
- section height 2000 mm / section depth 400/600/800 mm



Outgoing sections for outgoers up to 630 A in Form 2

- widths of 800/1000/1200 mm
- module widths of 425 and 600 mm
- 3 or 4 poles
- Form 2
- IP31/55
- consistent mounting height of switchgear
- circuit breakers suitable for use with plug base
- single-wing section door up to 800/1000 mm, 2-wing door for 1200 mm
- suitable for switchgear with remote operation
- operation behind the door
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/ cable connection area



Outgoing sections for fixed outgoers up to 630 A in Form 4

- widths of 800/1000/1200 mm
- module widths of 425 and 600 mm
- each module comes with its own front panel
- 3 or 4 poles
- Form 4
- IP31/55
- circuit breakers suitable for use with plug base - NZM3 with plug base in 800 mm deep sections
- suitable for switchgear with remote operation
- separate doors to switchgear area and connection area
- transparent doors (glass doors) are possible
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600/600 mm Switchgear area/cable connection area



Outgoing sections for fuse strips up to 630 A (SL)

- widths of 600/800/1000 mm
- vertical position of fuse strips
- IP31/ IP55 with door in section height
- outgoers are possible downwards and upwards
- Form 2
- operation from outside or behind the door



Outgoing section for fuse strips up to 630A with section dropper bar up to 1600-3200 A (SL-I) across two sections

- widths of 600/800/1000 mm
- dropper bar to be selected from 1600-3200 A
- Form 2
- fuse strips in vertical position
- IP31/ IP55 with door as high as the section
- outgoers are possible downwards and upwards
- up to 40% Cu savings
- operation from outside or behind the door
- quick and easy mounting of fuse strips thanks to the double-bar system



Box solution

- widths of 600/1000/1200 mm
- module widths of 425/600 mm
- each module comes with its own door to the switchgear area
- 3 or 4 poles
- fixed or withdrawable
- suitable for switchgear with remote operation
- to be operated behind the door or with rotary door coupling handle
- dropper bar to be selected from 800-1600 A
- empty and module panels for the set-up of outgoers (RCD, FAZ ...)
- Form 4
- IP31/55

XR - Outgoing sections - Removable design



Outgoing sections for switch fuse units (load disconnecter units) up to 630 A (SSL)

- widths of 600/800/1000/1200 mm
- suitable for rear-mounted main busbar HSS
- horizontal and vertical position of fuse switch disconnecter strips is possible
- can be installed while energized (fuse strips)
- IP31
- outgoing are possible downwards and upwards
- Form 4
- operation from outside
- dropper bar selectable from 800-1600 A

Plug-in module technology - outgoing sections in Form 2

- widths of 800/1000/1200 mm
- module width 600 mm
- Form 2
- 3 or 4 poles
- IP31/55
- consistently equal mounting height of the switchgear
- single-wing section door with 800/1000 mm, double-wing door with 1200 mm
- suitable for switchgear with remote operation
- to be operated behind the door
- empty plug-in module for the incorporation of RCD, FAZ ...
- dropper bar selectable from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/cable connection area
- Modules removeable while energized

Plug-in module technology - outgoing sections in Form 4

- widths of 800/1000/1200 mm
- module width 600 mm
- Form 4
- 3 or 4 poles
- IP31/55
- each module comes with its own front panel
- separate doors to switchgear area and connection area
- transparent doors (glass doors) are possible
- empty plug-in module for the incorporation of RCD, FAZ ...
- to be operated behind the door
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/cable connection area
- Modules removeable while energized

XW - Outgoing sections - Withdrawable design



Outgoing sections - withdrawable design

- widths of 1000/1200 mm
- section depths of 600/800/1000 mm
- 3 or 4 poles
- rated current of dropper bars $I_n=1000$ or 2000 A / 3 or 4 poles
- max. short-circuit current $I_{CW}=80$ kA
- IP31/55
- shelf-boards can be mounted at individual heights, depending on the size of the modules
- max. height of dropper bar available to accommodate equipment = 1875 mm
- cable connection area, fully sealed off from the switchgear area, main busbar area and dropper bar area
- dropper bar at the front fully sealed off thanks to self-closing shutters
- drawers available:
 - power outgoing up to 630 A
 - direct starters from 0.06-132 kW
 - reverse starters from 0.06-132 kW
 - star-triangle starters from 5.5-110 kW
- outgoing from 132 to 250 kW are executed as fixed design solutions
- Modules removeable while energized

XG - Empty sections for General equipment



Empty sections for individual mounting units

- fitting systems for modular installation devices (IVS, EP, Profi+ ...)
- individual mounting units fixed on mounting plates
- control technology - suitable for installation of mounting plates as high as the section, or of split ones
- section height 2000 mm
- section depths of 400/600/800 mm
- section widths of 425/600/800/850/1000/1100/1200/1350 mm
- IP31/55

Technical Data

		Rear busbars up to 5000 A Top busbars up to 3200 A
Standards/regulations		IEC/EN 60439-1, IEC/EN 61439-2
Apply Cu according to		EN 13601-CU-ETP-R250-SH
Ambient temperature	°C	-5 up to +40, +35 (24h average value)
Relative humidity	%	50 at 40°C
Protective measure		Protection class I, protective conductor connection
Degree of protection ¹⁾		IP31, IP55 according to IEC/EN 60529 IK10
Rated insulation voltage U_i	V	1000
Rated voltage U_e	V	690
Insulation coordination		III/3
Rated impulse withstand voltage U_{imp}	kV	up to 12
Overvoltage category		IV
Degree of pollution		3
Rated frequency	Hz	40-60
Busbar rated current I_e	A	up to 5000
Busbar rated impulse withstand current I_{cw}	kA	up to 100 (1s)
Busbar rated peak withstand current I_{pk}	kA	up to 220
Sheet thickness	mm	Door and frame = 2, rear, side and top panels = 1.5
Metal surfaces		Electro-galvanized, powder-coated
Color		RAL 7035 light-grey
Lock mechanism		Espagnolette lock with 2 or 4 point locking and turn-lock 3 mm two-way key bit
On-site installation conditions		Indoor installation according to IEC/EN 60439
Dimensions	mm	Width: 425 – 1350 Height: 2000 (optional 100 or 200 mm with plinth) Depth: 400, 600, 800, 1000

¹⁾ The degree of protection of the fitted components - depending on the specifications given in the components catalogue - must be taken into account.

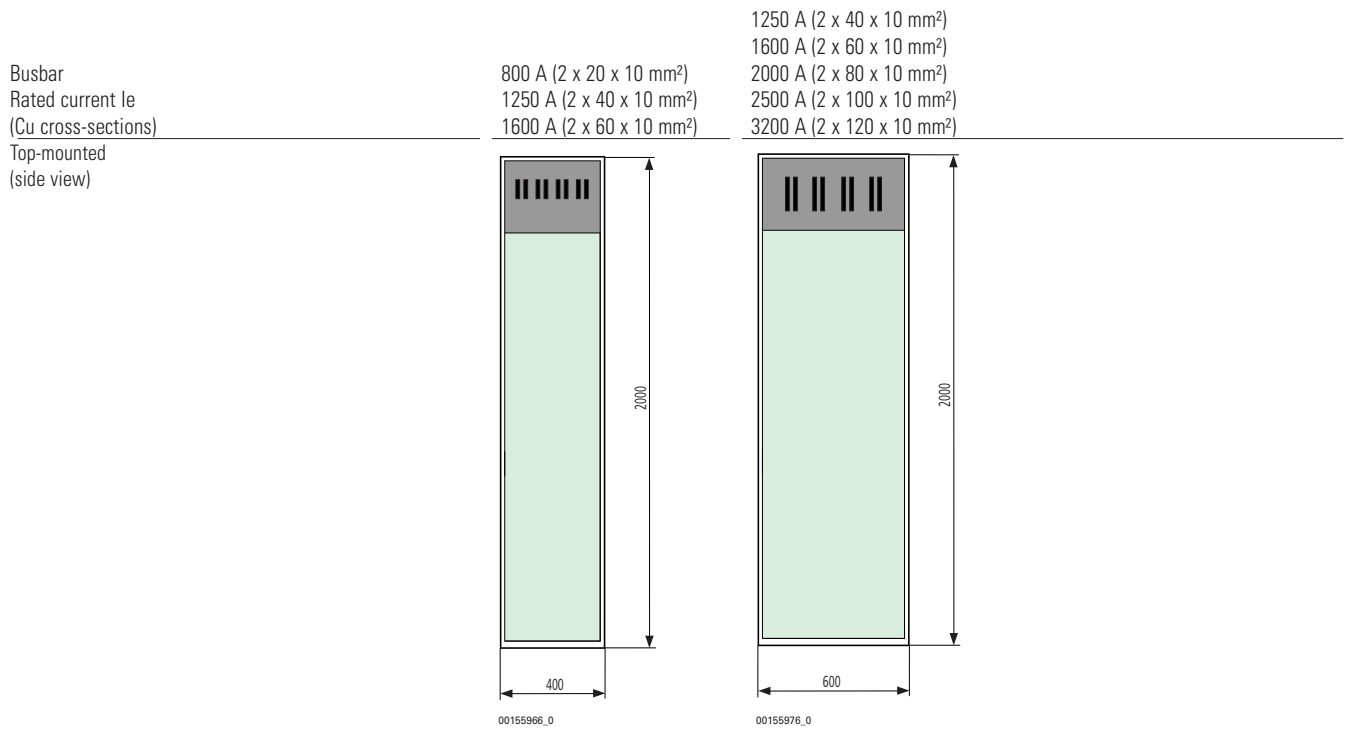
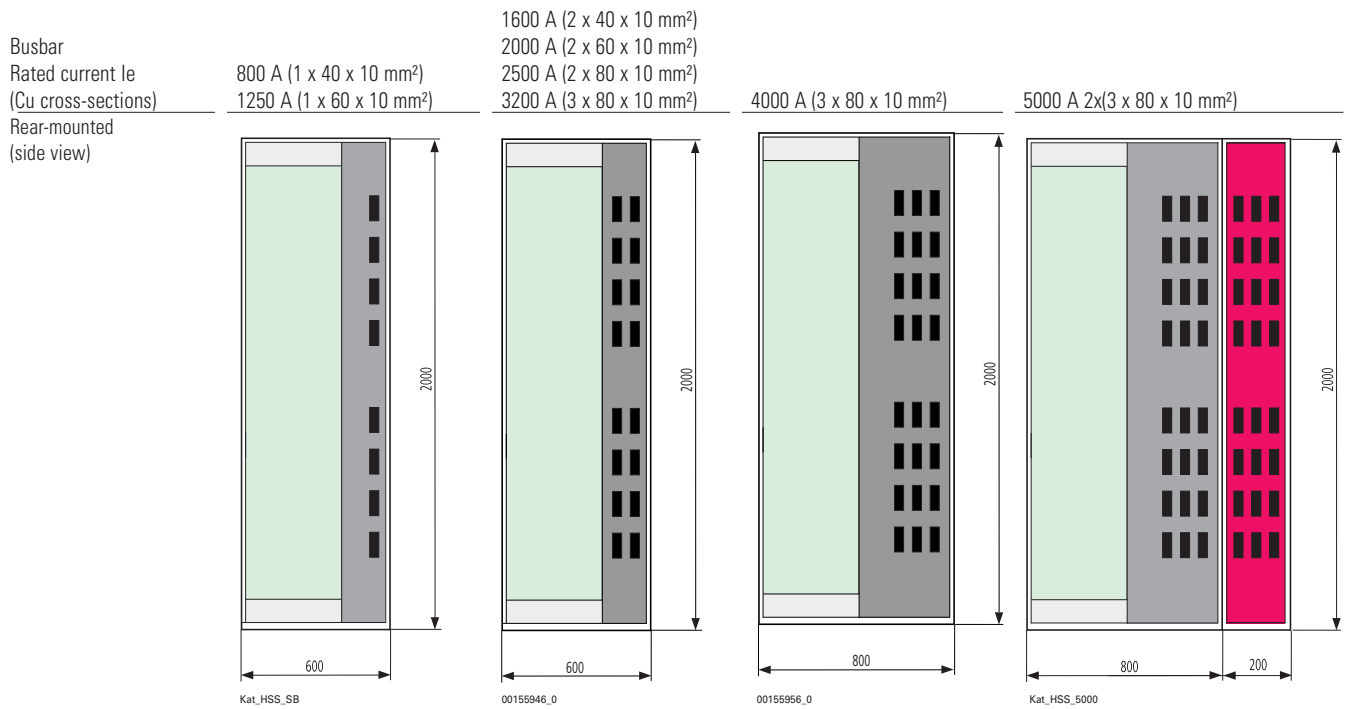
xEnergy Switchboards

Tender text

- Ready to connect, steel-encapsulated low-voltage switchgear system in multiple control panel design with type-tested installation systems to IEC/EN 61439-1 (VDE 0660 part 500), IEC/EN 61439-2 (VDE 0660 part 600-2).
- The following descriptions are calculation-related and contractual elements. They are to be considered with the descriptions of the individual systems and the equipment, even when they are not mentioned in detail.
- Cabinet systems consisting of individual add-on sections of the same type in torsion-resistant steel profile design, made of electrolytically galvanized 2 mm thick steel sections, with internal pre-drilled holes at 25 mm intervals to DIN 43660, structured powder spray paint RAL 7035 light grey.
- Removable external panelling, made of 1.5 mm electrolytically galvanized sheet steel, structured powder spray paint RAL 7035 light grey.
- All construction parts for internal setup are hot-galvanized and feature pre-drilled holes at 25 mm intervals to DIN 43660.
- Plinth 100/200 mm high, electrolytically galvanized, powder-coated in RAL 7035 light grey, with removable front, side and rear panels. The plinth must be suitable for direct transport with the respective tools.
- Switchboard cabinets accessible from the front through inlying doors with external hinges. 180° door opening angle. Door lock with espagnolette lock, 4 point locking and two-way key bit lock. To be actuated with a clip-down handle for half cylinder safety lock.
- Degree of protection: IP31 to DIN EN 60529
IP55 with sealed door
- Protective measures: with protective conductor, protection class I
- Rated insulation voltage: 690 V
- Overvoltage category: III
- Degree of pollution: 3
- Rated operational voltage: V
- Frequency: Hz
- Control voltage AC/DC: V
- Busbar rated current: A
- Rated short-time withstand current I_{cw} kA/s
- Network system configuration
- Busbars (number), conductor labelling
- Max. dimensions allowed
Width
Height
Depth
- Largest transport unit allowed
Width
Height
Depth
- All transport units feature removable lifting eyebolts.
- Equipment of the switchgear system with the following components, fixed installation method:
.....
.....
.....
.....
- Fully assembled switchgear system described above, ready to connect and prewired, subject to 100% ex-factory test to IEC/EN 61439 part 1. The test protocol is part of the documentation.
- Manufactured by Eaton
- Type xEnergy

xEnergy Switchboards

System description - main busbars and section depths



Busbar area
 Switchgear area

additional busbar area for 5000 A

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Technical Data Main Busbar - Top

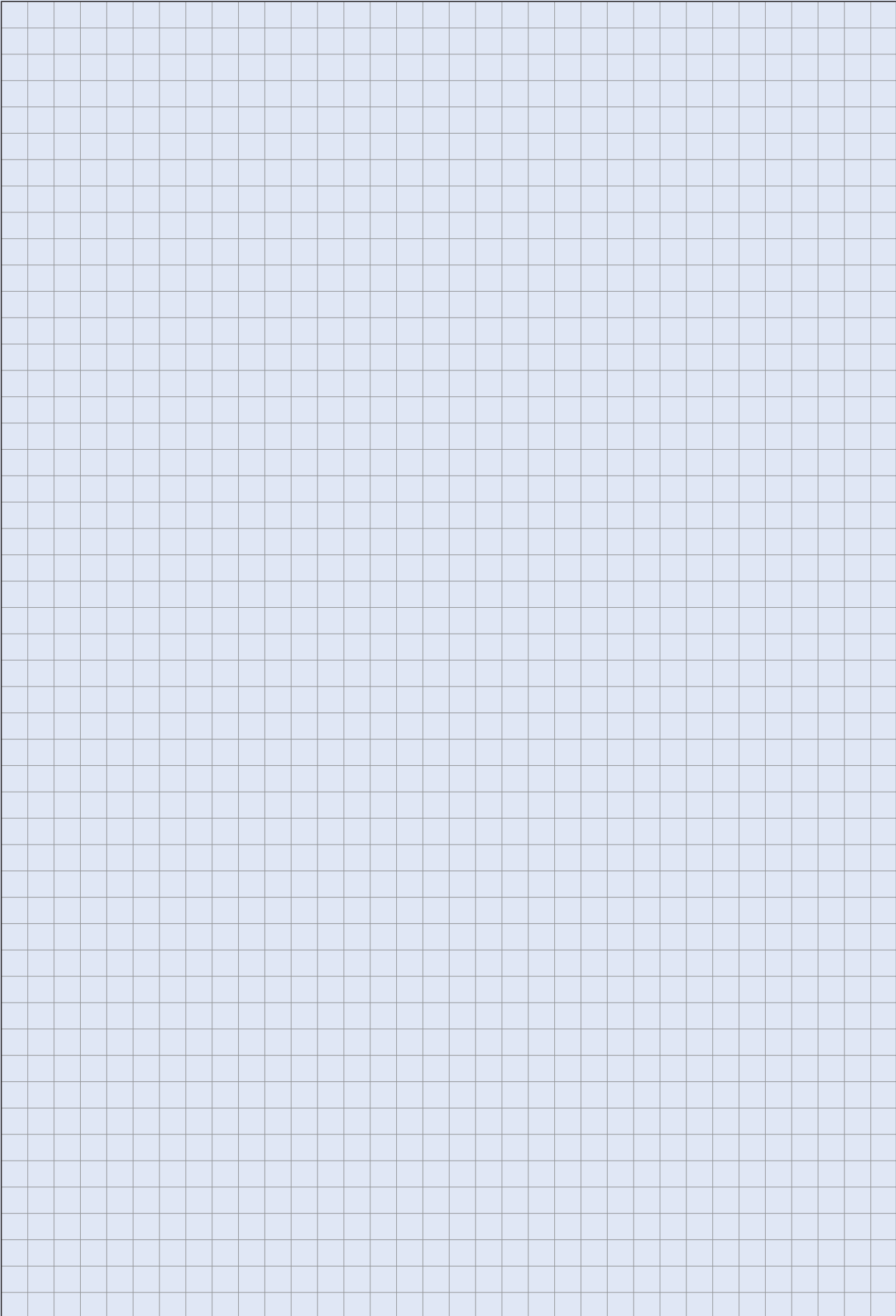
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XP = Power sections

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xEnergy Switchboards

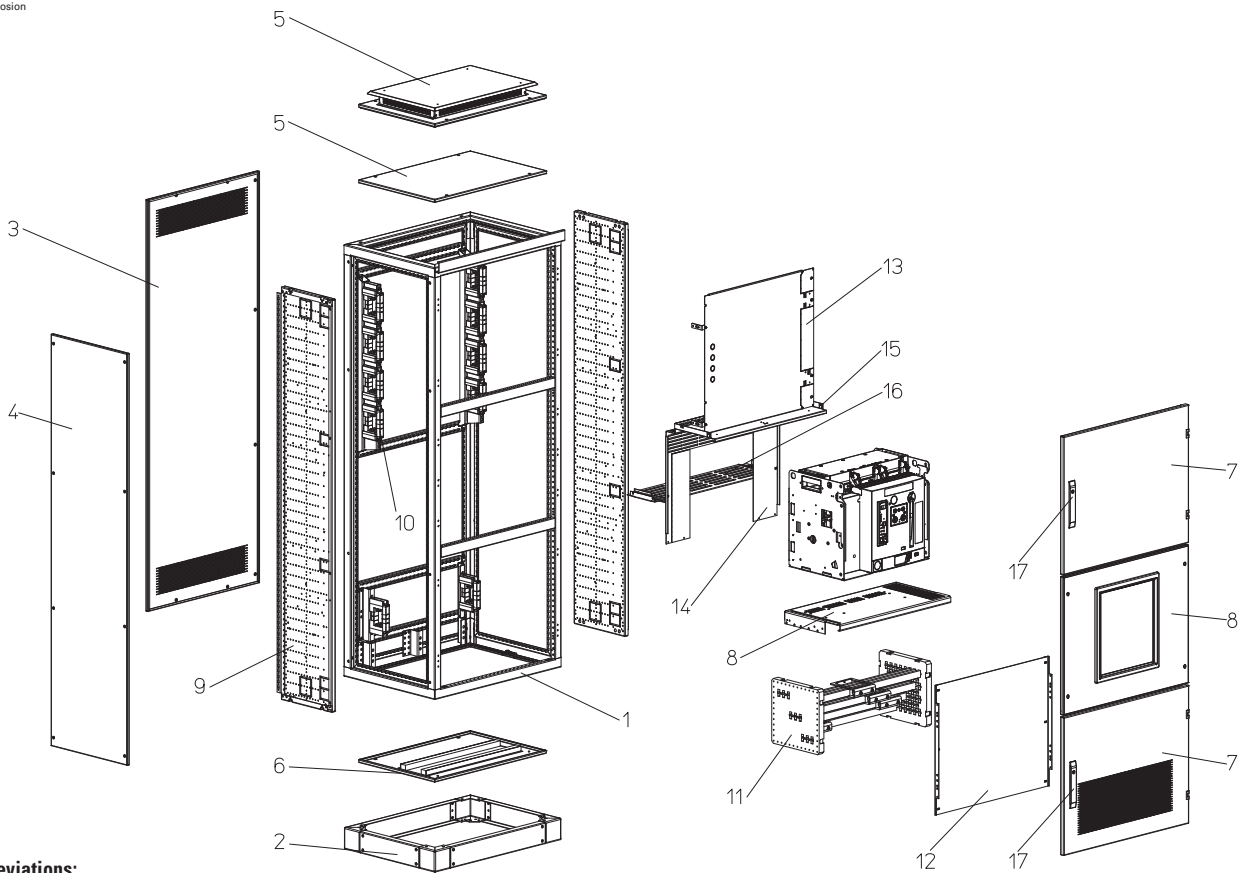
Notes



xEnergy Switchboards

XP Section IZM; IZMX16, IZMX40, IZM26, up to 5000 A

IZM_Explosion



Abbreviations:

EVEN Main busbars and connection area are on the same side
 OPPO Main busbars and connection area are opposite each other
 UK 3P&N (for UK market)

- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Fitting kit
- 9 Universal mounting plate
- 10 Main busbar support
- 11 Cable connection system
- 12 PVC cover
- 13 Partition main busbar area/switchgear area (mounting plate)
- 14 Partition main busb. area/switchg. area
- 15 Partition switchgear area/switchgear area
- 16 Partition main busbar area/connection a.
- 17 Lock mechanism

Features

- widths of 425/600/800/1000/1100/1200 mm
- fixed or withdrawable design
- 3 or 4 poles
- with another main busbar suitable as a coupling section
- 800-4000 A
- Form 4
- IP31, IP55 with protective cover
- suitable for drill-free cable connection, for top and bottom installation
- to be operated from outside
- suitable for switchgear with remote operation

Notes

Frame comes with a blue design strip. Doors include a locking system for a 3 mm two-way key bit. All parts are pre-drilled and include all fixing materials. For IP55 a protective cover needs to be ordered in addition. If you use a counter-locking system, please make sure the fitting kit is sufficient! Where cover plates of several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures. For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

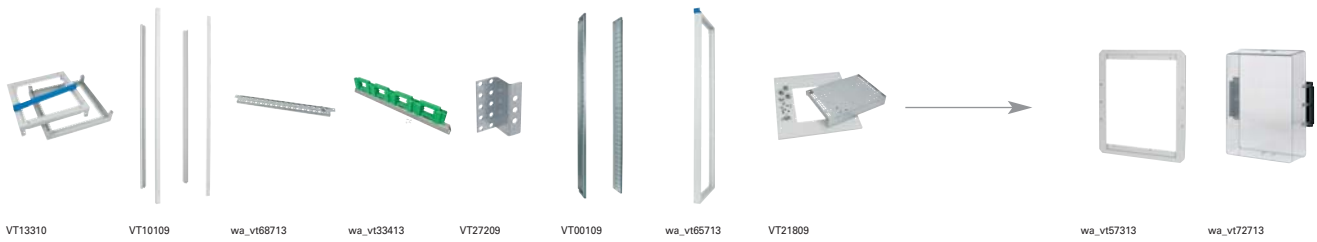
XP Section Incoming Supply IZMX16, Rear-mounted Main Busbars (HSS)



VT18310

Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section-depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking ¹⁾	Projection over front edge mm
Circuit breaker IZMX16										
IZMX16	42	1600	600	425	3	F	Center	OPPO/EVEN	no	0
			600	425	3	F	Center	OPPO/EVEN	no	0
			600	425	3+4	F	Center	OPPO/EVEN	no	0
			600	425	3	W	Center	OPPO/EVEN	no	0
			600	425	3+4	W	Center	OPPO/EVEN	no	0
			800	425	3	F	Center	OPPO/EVEN	no	0
			600	425	3+4	F	Center	OPPO/EVEN	no	0
			600	425	3	W	Center	OPPO/EVEN	no	0
			600	425	3+4	W	Center	OPPO/EVEN	no	0

Note ¹⁾ As it is impossible to present all configuration options for the IZM 26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of "Configurations for the IZM 26 series" on page xx.



Frames	Vertical profiles	Crossbar for busbar support	Busbar bracket for main busbar	Busbar bracket for PEN	Fitting kit f. outgoers with circuit breaker	Add-on frame	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP 55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSFB0406 284232 122275 *	XSFH20 284245 122288 *	XBBB04 283859	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI16/3+4/04/06/F_/E+O 132970 133018 *	XMI16/3_/04/06/F_/E+O/D 134441 134462 *	XMIX16-XDT 168119 168120 *	IZM -DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI16/3+4/06/06/F_/E+O 132971 133019 *	XMI16/3+4/06/06/F_/E+O/D 134442 134463 *	XMIX16-XDT 168119 168120 *	IZM -DC 122926
XSFB0406 284232 122275 *	XSFH20 284245 122288 *	XBBB04 283859	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI16/3_/04/06/_W/E+O 132972 133020 *	XMI16/3_/04/06/_W/E+O/D 134443 134464 *	XMIX16-XDT 168119 168120 *	IZM -DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI16/3+4/06/06/_W/E+O 132973 133021 *	XMI16/3+4/06/06/_W/E+O/D 134444 134465 *	XMIX16-XDT 168119 168120 *	IZM -DC 122926
XSFB0408 284233 122276 *	XSFH20 284245 122288 *	XBBB04 283859	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI16/3+4/04/06/F_/E+O 132970 133018 *	XMI16/3_/04/06/F_/E+O/D 134441 134462 *	XMIX16-XDT 168119 168120 *	IZM -DC 122926
XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI16/3+4/06/06/F_/E+O 132971 133019 *	XMI16/3+4/06/06/F_/E+O/D 134442 134463 *	XMIX16-XDT 168119 168120 *	IZM -DC 122926
XSFB0408 284233 122276 *	XSFH20 284245 122288 *	XBBB04 283859	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI16/3_/04/06/_W/E+O 132972 133020 *	XMI16/3_/04/06/_W/E+O/D 134443 134464 *	XMIX16-XDT 168119 168120 *	IZM -DC 122926
XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI16/3+4/06/06/_W/E+O 132973 133021 *	XMI16/3+4/06/06/_W/E+O/D 134444 134465 *	XMIX16-XDT 168119 168120 *	IZM -DC 122926

Note

* Finish in special RAL colour



Front-Cover closed without cut-out	Partition connection/ main busbar centre	Partition switchgear/ switchgear/ top	Partition switchgear/ connection/ main busbar rear Drawer unit	Partition mounting plate switchgear/ main busbar	Partition mounting plate switchgear/ main busbar pivoting	Cover for connection area transparent	Door to switchg. a. closed up to IP55	Door to switch g. a. with cut-out 96/96 up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMC0604 102945 122417 *	XPIXBCB-H0402 133087	XPMMB0402 135263	XPIXFBMCB0604 151674	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-96 112317 122607 *
XMC0606 102946 122418 *	XPIXBCB-H0602 133089	XPMMB0602 135264	XPIXFBMCB0606 151675	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0604 102945 122417 *	XPIXBCB-H0402 133087	XPMMB0402 135263	XPIXBMCB0604 135261	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-96 112317 122607 *
XMC0606 102946 122418 *	XPIXBCB-H0602 133089	XPMMB0602 135264	XPIXBMCB0606 135262	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0604 102945 122417 *	XPIXBCB-H0404 133088	XPMMB0402 135263	XPIXFBMCB0604 151674	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-96 112317 122607 *
XMC0606 102946 122418 *	XPIXBCB-H0604 133090	XPMMB0602 135264	XPIXFBMCB0606 151675	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0604 102945 122417 *	XPIXBCB-H0404 133088	XPMMB0402 135263	XPIXBMCB0604 135261	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-96 112317 122607 *
XMC0606 102946 122418 *	XPIXBCB-H0604 133090	XPMMB0602 135264	XPIXBMCB0606 135262	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *

Note * Finish in special RAL colour



Door to switchg. a. with cut-out 144/144 up to IP55	Door to switchg. a. ventilated right-hinged up to IP31	Door to switchg. a. ventilated left-hinged up to IP31	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate closed up to IP55	Cover plate for flanges up to IP55	Cover plate in several parts up to IP31 ¹⁾	Protective cover up to IP 31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0604-1-144 112327	XSDMRV0604 284214	XSDMLV0604 284205	XSWC2004 284355	XSUV2004 284360	XAW2006 283857	XSPTC0406 284302	XSPTF0406 284317	XSPBM0406 284287	XAD0406 283485
122612 *	122260 *	122251 *	122346 *	122351 *	122119 *	122317 *	122332 *	122302 *	122077 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSUV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488
122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *
XSDMC0604-1-144 112327	XSDMRV0604 284214	XSDMLV0604 284205	XSWC2004 284355	XSUV2004 284360	XAW2006 283857	XSPTC0406 284302	XSPTF0406 284317	XSPBM0406 284287	XAD0406 283485
122612 *	122260 *	122251 *	122346 *	122351 *	122119 *	122317 *	122332 *	122302 *	122077 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSUV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488
122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *
XSDMC0604-1-144 112327	XSDMRV0604 284214	XSDMLV0604 284205	XSWC2004 284355	XSUV2004 284360	XAW2008 283858	XSPTC0408 284303	XSPTF0408 284318	XSPBM0408 284288	XAD0408 283486
122612 *	122260 *	122251 *	122346 *	122351 *	122120 *	122318 *	122333 *	122303 *	122078 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSUV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291	XAD0608 283489
122613 *	122261 *	122252 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *	122081 *
XSDMC0604-1-144 112327	XSDMRV0604 284214	XSDMLV0604 284205	XSWC2004 284355	XSUV2004 284360	XAW2008 283858	XSPTC0408 284303	XSPTF0408 284318	XSPBM0408 284288	XAD0408 283486
122612 *	122260 *	122251 *	122346 *	122351 *	122120 *	122318 *	122333 *	122303 *	122078 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSUV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291	XAD0608 283489
122613 *	122261 *	122252 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *	122081 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. For inserting large cable cross sections, additional measures may be required to ensure the degree of protection.



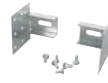
wa_vt66113



VT08106



wa_vt15013



wa_vt58313

Pressure relief flaps	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPTA0406 107257 122516 *	XAP010406 283823 122091 *	XAP020406 283837 122105 *	XAR04 283850	XNBW-R2 106740	
XSPTA0606 107280 122519 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	
XSPTA0406 107257 122516 *	XAP010406 283823 122091 *	XAP020406 283837 122105 *	XAR04 283850	XNBW-R2 106740	
XSPTA0606 107280 122519 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	
XSPTA0408 107258 122517 *	XAP010408 283824 122092 *	XAP020408 283838 122106 *	XAR04 283850	XNBW-R2 106740	
XSPTA0608 107281 122520 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	
XSPTA0408 107258 122517 *	XAP010408 283824 122092 *	XAP020408 283838 122106 *	XAR04 283850	XNBW-R2 106740	
XSPTA0608 107281 122520 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	

Note

* Finish in special RAL colour

xEnergy Switchboards

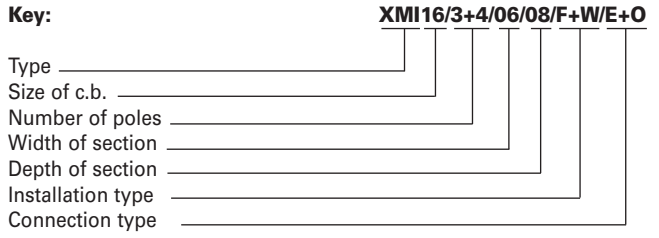
Overview of fitting kits for IZMX16

Including base plate, front plate, fastening bracket and fastening material.



VT21809

- Version 1:** Fixed installation type
- Version 2:** Withdrawable
- Version 3:** Fixed, incl. mechanical locking
- Version 4:** Withdrawable, incl. mechanical locking
- Version 5:** Withdrawable, incl. position indicator
- O** = OPPO
- E** = EVEN



Fitting kit	Fitting kit with modular door	Poles OPPO/EVEN Version	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	
Article No. per unit	Article No. per unit		0	0	0	0	0	E	E	E	E	0	0	0	0	0	E	E	E	E	E	
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Circuit breaker IZMX 16																						
XMI16/3_/04/06/F_/E+O	XMI16/3_/04/06/F_/E+O/D																					
132970	134441		X					X														
133018 *	134462 *																					
XMI16/3+4/06/06/F_/E+O	XMI16/3+4/06/06/F_/E+O/D																					
132971	134442		X		X			X		X			X		X				X		X	
133019 *	134463 *																					
XMI16/3_/04/06/_W/E+O	XMI16/3_/04/06/_W/E+O/D																					
132972	134443									X												
133020 *	134464 *																					
XMI16/3+4/06/06/_W/E+O	XMI16/3+4/06/06/_W/E+O/D																					
132973	134444									X	X			X	X					X	X	
133021 *	134465 *		X		X			X	X				X	X						X	X	

Note

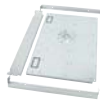
* Finish in special RAL colour

xEnergy Switchboards

Accessories for XP Sections (IZMX16), Internal Separation

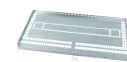
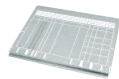
Separation panels / Mounting plates

Separation panels for EVEN type of connection (on the same side)



Section width mm	wa_vt62813		VT23509		Section width mm	VT01009	
	Swivel-mounted separation panel switchgear a./ busbar area suitable for NZM3+4 IZM13 IZM58	Article No. per unit	Partition switchgear a./ busbar area/ (mounting plate) Form 2/4 suitable for NZM3+4 IZMX16 IZMX40	Article No. per unit		Partition between incoming supply copper and connection copper on main busbar with IZMX16 Form 4	Article No. per unit
425	XPBMB0604-ROT 112312		XPBMB0604 284107		425	XPIXBCB-E-04 151676	
600	XPBMB0606-ROT 112313		XPBMB0606 284108		600	XPIXBCB-E-06 151677	

Partitions



Section width mm	wa_vt71313		wa_vt70113		wa_vt70513		wa_vt62413				
	Partition busbar area/ connection area (for IZMX16) section depth 600 mm Form 2/4	Article No. per unit	Partition busbar area/ connection a. (for IZMX16) section depth 800 mm Form 2/4	Article No. per unit	Partition busbar area/ switchgear area (for IZMX16) Form 2/4 withdrawable	Article No. per unit	Partition busbar area/ switchgear area (for IZMX16) Form 2/4 fixed	Article No. per unit	Partition connection area plexiglass cover Form 4	Article No. per unit	Partition switchgear area/ switchgear area/ Form 4
425	XPIXBCB-H-0402 133087		XPIXBCB-H-0404 133088		XPIXMCB0604 135261		XPIXFBMCB0604 151674		XPC0604 284115		XPMMB0402 135263
600	XPIXBCB-H-0602 133089		XPIXBCB-H-0604 133090		XPIXMCB0606 135262		XPIXFBMCB0606 151675		XPC0606 284116		XPMMB0602 135264

xEnergy Switchboards

Accessories

Accessories



VT24209 Door sealing frame to cover the door cut-out for IZMX16 fixed (Accessory in scope of delivery) Article No. per unit	Door sealing frame to cover the door cut-out for IZMX16 withdrawable (Accessory in scope of delivery) Article No. per unit	wa_vt157313 Add-on frame in combination with protective cover Article No. per unit	wa_vt72713 Protective cover made of plexiglass for IP55 Article No. per unit
IZMX-DEG16-F 124335	IZMX-DEG16-W 124390	XMIX16-XDT 168119 168120 *	IZMX-DC 122926

Partition extension (5000A)

Snap-on covers

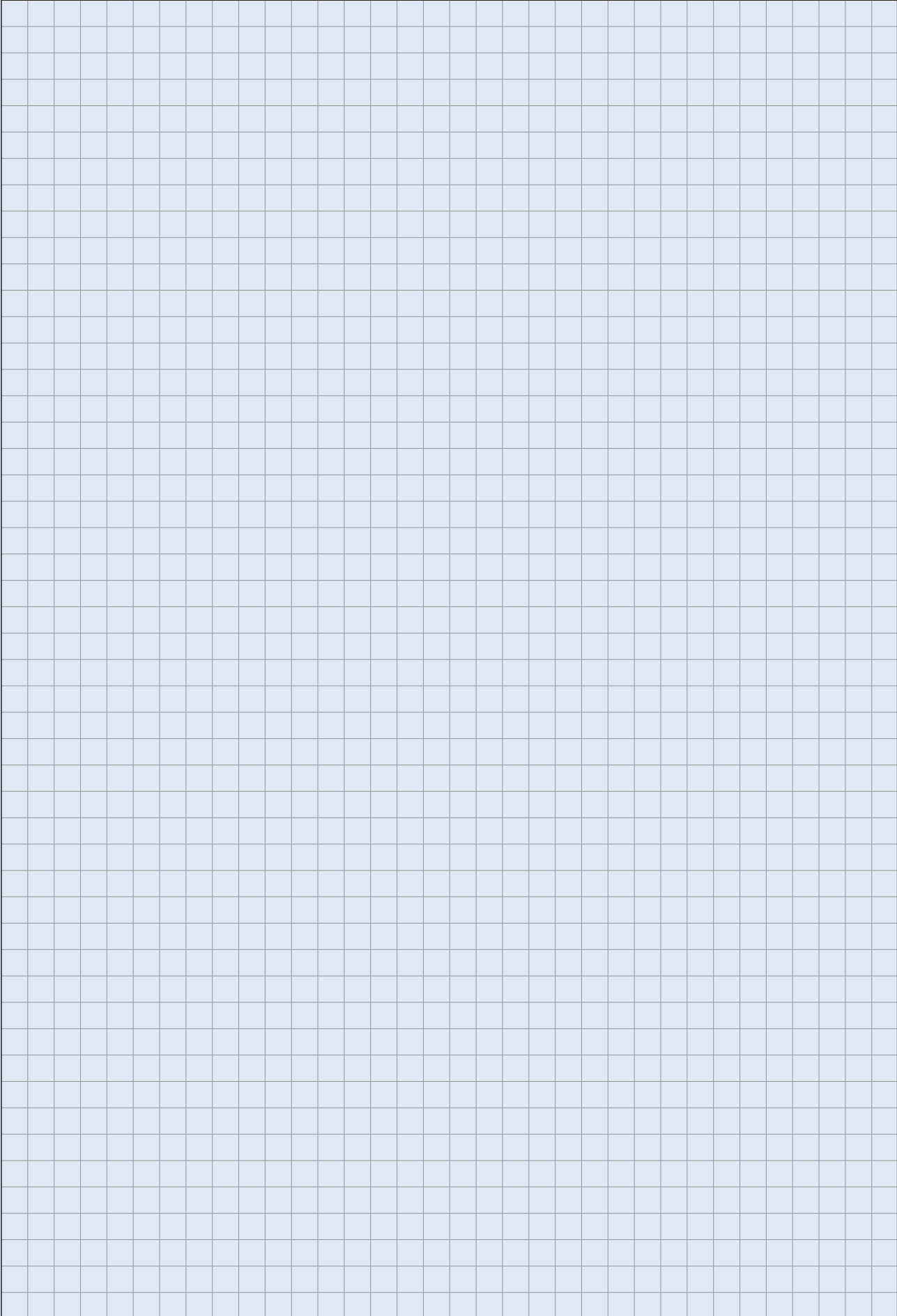


Section width mm	wa_vt71313 Partition extension for 5000 A application busbar area/ main busbar area/ (suitable for IZM and NZM) Article No. per unit		wa_vt33613 Section width mm Snap-on cover without cut-out Article No. per unit	
425	XPIBCB-H-04019 150514		XMC0604 102945	
600	XPIBCB-H-06019 150515		XMC0606 102946	

Note * Finish in special RAL colour

xEnergy Switchboards

Notes

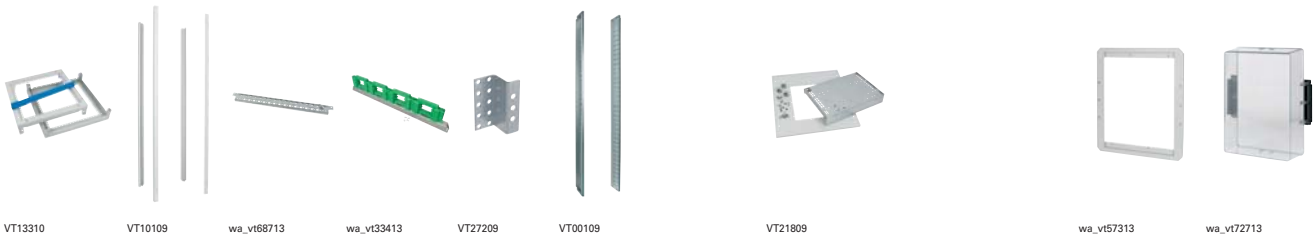


XP Section Incoming Supply IZMX40, Rear-mounted Main Busbars (HSS), Section depth 600 mm



VT18310

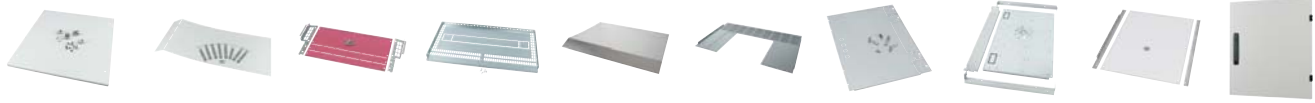
Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section-depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Connection type	Mechanical locking	Projection over front edge mm
Circuit breaker IZMX40									
IZMX40	85	630-1600	600	600	3	W	EVEN	no	0
				800	3+4	W	EVEN	yes	0
		630-3200	600	600	3	F	OPPO	no	0
				800	3+4	F	OPPO	yes	0
				600	3	F	EVEN	no	0
				800	3+4	F	EVEN	yes	0
				600	3	W	OPPO	no	0
				800	3+4	W	OPPO	yes	0
				600	3	W	EVEN	no	0
				800	3+4	W	EVEN	yes	0
				600	3	W	EVEN	no	50
				800	3+4	W	EVEN	yes	50



Frames	Vertical profiles	Crossbar for busbar support	Busbar bracket for main busbar	Busbar bracket for PEN	Fitting kit f. outgoers with circuit breaker	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame	Protective cover necessary for IP 55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W06 166754 166767 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W08 166755 166768 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F06 166751 166764 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F08 166752 166765 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F06 166751 166764 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F08 166752 166765 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W06 166754 166767 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W08 166755 166768 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W06 166754 166767 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W08 166755 166768 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W06-50 166757 166770 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W08-50 166758 166771 *		XMIX40-XDT 166750	IZM-DC 122926

Note

* Finish in special RAL colour



wa_vt34113 VT01009 wa_vt71313 wa_vt62413 VT05711 VT05611 VT23509 wa_vt62813 wa_vt70513 wa_vt65313

Snap-on c. without cut-out	Partition / main busbar (with EVEN type of conn.)	Partition connection/ main busbar	Partition switchg. a./ switchg. a/	Additional partition in 4000A XP sections for chimney effect	Partition switchgear area/main busbar	Partition mounting plate switchgear/ main busbar	Partition mounting plate switchgear/ main busbar pivoting	Cover for connection area transparent	Door to switchg. a. closed up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMC0606 102946 122418 *	XPIX40BCB-E-06 166742	XPIX40BCB-H-0602 166226	XPMMB0603 166239	-	XPIX40WBMCB0606 166220	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	XPIX40BCB-E-08 166743	XPIX40BCB-H-0802 166227	XPMMB0803 166240	-	XPIX40WBMCB0608 166222	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0606 102946 122418 *	-	XPIX40BCB-H-0602 166226	XPMMB0603 166239	-	XPIX40FBMCB0606 164349	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	-	XPIX40BCB-H-0802 166227	XPMMB0803 166240	-	XPIX40FBMCB0608 166221	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0606 102946 122418 *	XPIX40BCB-E-06 166742	XPIX40BCB-H-0602 166226	XPMMB0603 166239	-	XPIX40FBMCB0606 164349	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	XPIX40BCB-E-08 166743	XPIX40BCB-H-0802 166227	XPMMB0803 166240	-	XPIX40FBMCB0608 166221	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0606 102946 122418 *	-	XPIX40BCB-H-0602 166226	XPMMB0603 166239	-	XPIX40WBMCB0606 166220	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	-	XPIX40BCB-H-0802 166227	XPMMB0803 166240	-	XPIX40WBMCB0608 166222	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0606 102946 122418 *	XPIX40BCB-E-06 166742	XPIX40BCB-H-0602 166226	XPMMB0603 166239	-	XPIX40WBMCB0606 166220	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	XPIX40BCB-E-08 166743	XPIX40BCB-H-0802 166227	XPMMB0803 166240	-	XPIX40WBMCB0608 166222	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0606 102946 122418 *	XPIX40BCB-E-06 166742	XPIX40BCB-H-0602 166226	XPMMB0602 135264	-	XPIX40WBMCB0606 166220	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	XPIX40BCB-E-08 166743	XPIX40BCB-H-0802 166227	XPMMB0802 167314	-	XPIX40WBMCB0608 166222	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *

Note

* Finish in special RAL colour



wa_vt63013



wa_vt63013



wa_vt65413



wa_vt65513



wa_vt25213



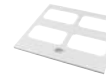
wa_vt65613



VT07706



wa_vt25513



wa_vt25613



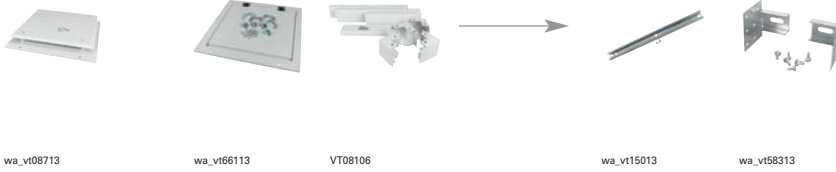
wa_vt25313

Door to switchg. a. with cut-out 96/96 up to IP55	Door to switchg. a. with cut-out 144/144 up to IP55	Door to switchg. a. ventilated right-hinged up to IP31	Door to switchg. a. ventilated left-hinged up to IP31	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate closed up to IP55	Cover plate for flanges up to IP55	Cover plate in several parts up to IP31 ¹⁾
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. For inserting large cable cross sections, additional measures may be required to ensure the degree of protection.

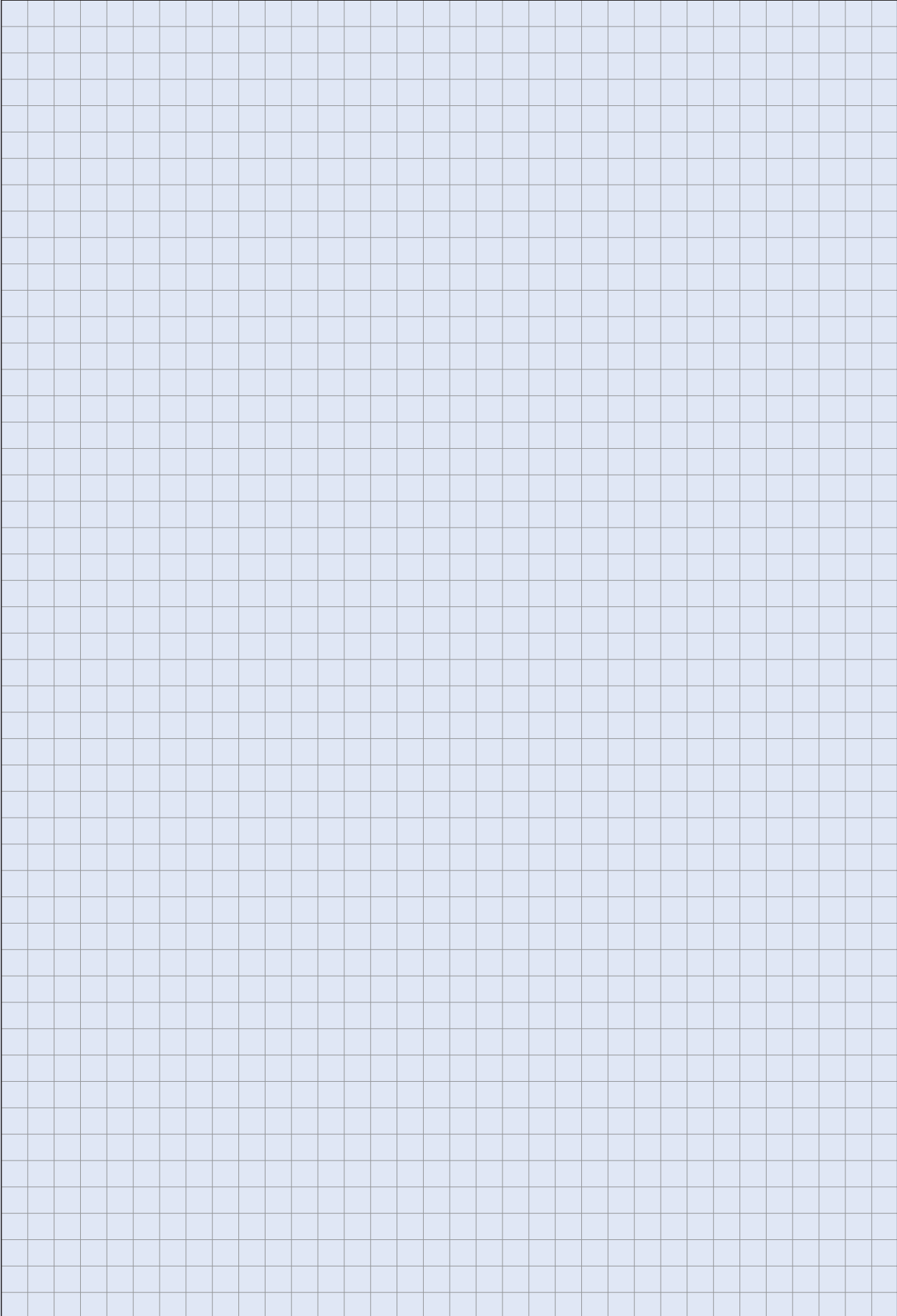


Protective cover up to IP 31	Pressure relief flaps	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XAD0606 283488	XSPTA0606 107280	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	
122080 *	122519 *	122094 *	122108 *			
XAD0806 283811	XSPTA0806 107283	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	
122083 *	122522 *	122097 *	122111 *			
XAD0606 283488	XSPTA0606 107280	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	
122080 *	122519 *	122094 *	122108 *			
XAD0806 283811	XSPTA0806 107283	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	
122083 *	122522 *	122097 *	122111 *			
XAD0606 283488	XSPTA0606 107280	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	
122080 *	122519 *	122094 *	122108 *			
XAD0806 283811	XSPTA0806 107283	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	
122083 *	122522 *	122097 *	122111 *			
XAD0606 283488	XSPTA0606 107280	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	
122080 *	122519 *	122094 *	122108 *			
XAD0806 283811	XSPTA0806 107283	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	
122083 *	122522 *	122097 *	122111 *			
XAD0606 283488	XSPTA0606 107280	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	
122080 *	122519 *	122094 *	122108 *			
XAD0806 283811	XSPTA0806 107283	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	
122083 *	122522 *	122097 *	122111 *			

Note * Finish in special RAL colour

xEnergy Switchboards

Notes

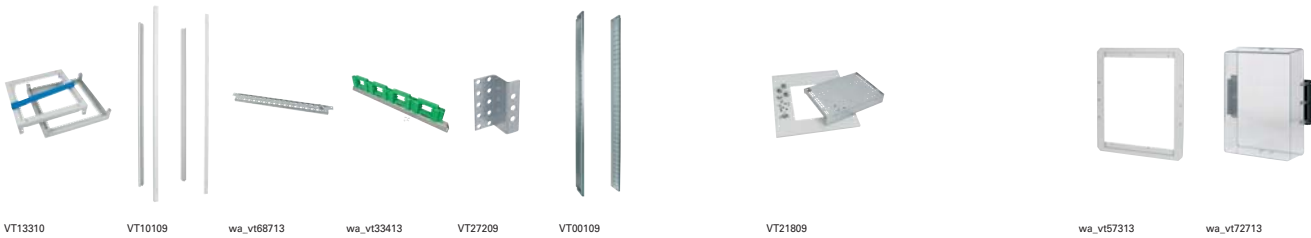


XP Section Incoming Supply IZMX40, Rear-mounted Main Busbars (HSS), Section depth 800 mm



VT18310

Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section-depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Connection type	Mechanical locking	Projection over front edge mm
Circuit breaker IZMX40									
IZMX40	85	630-4000	800	600	3	F	OPPO	no	0
				800	3+4	F	OPPO	yes	0
				1000	3+4	F	OPPO	yes	0
				600	3	F	EVEN	no	0
				800	3+4	F	EVEN	yes	0
				1000	3+4	F	EVEN	yes	0
				600	3	W	OPPO	no	0
				800	3+4	W	OPPO	yes	0
				1000	3+4	W	OPPO	yes	0
				600	3	W	EVEN	no	0
				800	3+4	W	EVEN	yes	0
				1000	3+4	W	EVEN	yes	0

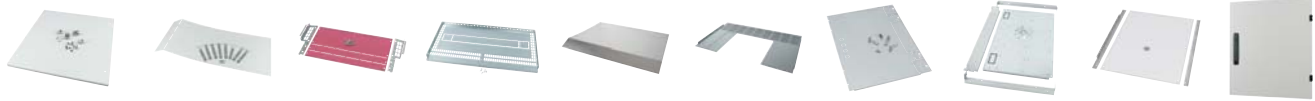


VT13310 VT10109 wa_vt168713 wa_vt33413 VT27209 VT00109 VT21809 wa_vt157313 wa_vt172713

Frames	Vertical profiles	Crossbar for busbar support	Busbar bracket for main busbar	Busbar bracket for PEN	Fitting kit f. outgoers with circuit breaker	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame	Protective cover necessary for IP 55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F06 166751 166764 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F08 166752 166765 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F10 166753 166766 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F06 166751 166764 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F08 166752 166765 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMIB20 284257	XMIX40F10 166753 166766 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W06 166754 166767 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W08 166755 166768 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W10 166756 166769 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W06 166754 166767 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W08 166755 166768 *		XMIX40-XDT 166750	IZM-DC 122926
XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMIB20 284257	XMIX40W10 166756 166769 *		XMIX40-XDT 166750	IZM-DC 122926

Note

* Finish in special RAL colour



wa_vt34113 VT01009 wa_vt71313 wa_vt62413 VT05711 VT05611 VT23509 wa_vt62813 wa_vt70513 wa_vt65313

Snap-on c. without cut-out	Partition/ main busbar (with EVEN type of conn.)	Partition connection/ main busbar	Partition switchg. a./ switchg.a./	Additional partition in 4000A XP sections for chimney effect	Partition switchgear area/main busbar	Partition mounting plate switchgear/ main busbar	Partition mounting plate switchgear/ main busbar pivoting	Cover for connection area transparent	Door to switchg. a. closed up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMC0606 102946 122418 *	-	XPIX40BCB-H-0604 166223	XPMMB0603 166239	-	XPIX40FBMCB0606 164349	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	-	XPIX40BCB-H-0804 166224	XPMMB0803 166240	-	XPIX40FBMCB0608 166221	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0610 102948 122420 *	-	XPIX40BCB-H-1004 166225	XPMMBA10 166698	XPPBMV10 166741	XPIX40FBMCB0610 164347	XPBMB0510 133068	XPBMB0510-ROT 149191	XPC0610 133078	XSDMC0610 285506 122374 *
XMC0606 102946 122418 *	XPIX40BCB-E-06 166742	XPIX40BCB-H-0604 166223	XPMMB0603 166239	-	XPIX40FBMCB0606 164349	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	XPIX40BCB-E-08 166743	XPIX40BCB-H-0804 166224	XPMMB0803 166240	-	XPIX40FBMCB0608 166221	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0610 102948 122420 *	XPIX40BCB-E-10 166744	XPIX40BCB-H-1004 166225	XPMMBA10 166698	XPPBMV10 166741	XPIX40FBMCB0610 164347	XPBMB0510 133068	XPBMB0510-ROT 149191	XPC0610 133078	XSDMC0610 285506 122374 *
XMC0606 102946 122418 *	-	XPIX40BCB-H-0604 166223	XPMMB0603 166239	-	XPIX40WBMCB0606 166220	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	-	XPIX40BCB-H-0804 166224	XPMMB0803 166240	-	XPIX40WBMCB0608 166222	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0610 102948 122420 *	-	XPIX40BCB-H-1004 166225	XPMMBA10 166698	XPPBMV10 166741	XPIX40WBMCB0610 164348	XPBMB0510 133068	XPBMB0510-ROT 149191	XPC0610 133078	XSDMC0610 285506 122374 *
XMC0606 102946 122418 *	XPIX40BCB-E-06 166742	XPIX40BCB-H-0604 166223	XPMMB0603 166239	-	XPIX40WBMCB0606 166220	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *
XMC0608 102947 122419 *	XPIX40BCB-E-08 166743	XPIX40BCB-H-0804 166224	XPMMB0803 166240	-	XPIX40WBMCB0608 166222	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *
XMC0610 102948 122420 *	XPIX40BCB-E-10 166744	XPIX40BCB-H-1004 166225	XPMMBA10 166698	XPPBMV10 166741	XPIX40WBMCB0610 164348	XPBMB0510 133068	XPBMB0510-ROT 149191	XPC0610 133078	XSDMC0610 285506 122374 *

Note

* Finish in special RAL colour



wa_vt63013

wa_vt63013

wa_vt65413

wa_vt65513

wa_vt25213

wa_vt65613

VT07706

wa_vt25513

wa_vt25613

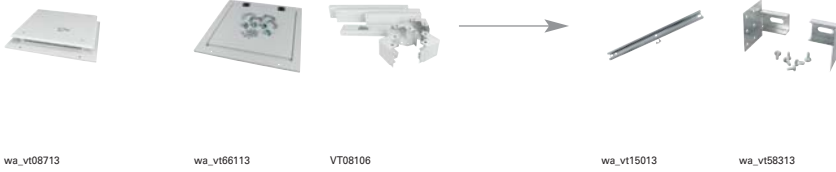
wa_vt25313

Door to switch g. a. with cut-out 96/96 up to IP55	Door to switch-g. a. with cut-out 144/144 up to IP55	Door to switchg. a. ventilated right-hinged up to IP31	Door to switchg. a. ventilated left-hinged up to IP31	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate closed up to IP55	Cover plate for flanges up to IP55	Cover plate in several parts up to IP31 ¹⁾
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324	XSPBM0808 284294
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122120 *	122324 *	122339 *	122309 *
XSDMC0610-1-96 112320	XSDMC0610-1-144 112330	XSDMRV0610 132997	XSDMLV0610 285507	XSWC2010 284358	XSWV2010 284363	XAW2008 283858	XSPTC1008 284312	XSPTF1008 284327	XSPBM1008 104530
122610 *	122615 *	133045 *	122375 *	122349 *	122354 *	122120 *	122327 *	122342 *	122422 *
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324	XSPBM0808 284294
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122120 *	122324 *	122339 *	122309 *
XSDMC0610-1-96 112320	XSDMC0610-1-144 112330	XSDMRV0610 132997	XSDMLV0610 285507	XSWC2010 284358	XSWV2010 284363	XAW2008 283858	XSPTC1008 284312	XSPTF1008 284327	XSPBM1008 104530
122610 *	122615 *	133045 *	122375 *	122349 *	122354 *	122120 *	122327 *	122342 *	122422 *
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324	XSPBM0808 284294
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122120 *	122324 *	122339 *	122309 *
XSDMC0610-1-96 112320	XSDMC0610-1-144 112330	XSDMRV0610 132997	XSDMLV0610 285507	XSWC2010 284358	XSWV2010 284363	XAW2008 283858	XSPTC1008 284312	XSPTF1008 284327	XSPBM1008 104530
122610 *	122615 *	133045 *	122375 *	122349 *	122354 *	122120 *	122327 *	122342 *	122422 *
XSDMC0606-1-96 112318	XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291
122608 *	122613 *	122261 *	122252 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *
XSDMC0608-1-96 112319	XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324	XSPBM0808 284294
122609 *	122614 *	122262 *	122253 *	122348 *	122353 *	122120 *	122324 *	122339 *	122309 *
XSDMC0610-1-96 112320	XSDMC0610-1-144 112330	XSDMRV0610 132997	XSDMLV0610 285507	XSWC2010 284358	XSWV2010 284363	XAW2008 283858	XSPTC1008 284312	XSPTF1008 284327	XSPBM1008 104530
122610 *	122615 *	133045 *	122375 *	122349 *	122354 *	122120 *	122327 *	122342 *	122422 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. For inserting large cable cross sections, additional measures may be required to ensure the degree of protection.



Protective cover up to IP 31	Pressure relief flaps	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit		
XAD0608 283489 122081 *	XSPTA0608 107281 122520 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	
XAD0808 283812 122084 *	XSPTA0808 107284 122523 *	XAP010808 283830 122098 *	XAP020808 283844 122112 *	XAR08 283852	XNBW-R2 106740	
XAD1008 283815 122087 *	XSPTA1008 107287 122526 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR10 283853	XNBW-R2 106740	
XAD0608 283489 122081 *	XSPTA0608 107281 122520 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	
XAD0808 283812 122084 *	XSPTA0808 107284 122523 *	XAP010808 283830 122098 *	XAP020808 283844 122112 *	XAR08 283852	XNBW-R2 106740	
XAD1008 283815 122087 *	XSPTA1008 107287 122526 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR10 283853	XNBW-R2 106740	
XAD0608 283489 122081 *	XSPTA0608 107281 122520 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	
XAD0808 283812 122084 *	XSPTA0808 107284 122523 *	XAP010808 283830 122098 *	XAP020808 283844 122112 *	XAR08 283852	XNBW-R2 106740	
XAD1008 283815 122087 *	XSPTA1008 107287 122526 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR10 283853	XNBW-R2 106740	
XAD0608 283489 122081 *	XSPTA0608 107281 122520 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	
XAD0808 283812 122084 *	XSPTA0808 107284 122523 *	XAP010808 283830 122098 *	XAP020808 283844 122112 *	XAR08 283852	XNBW-R2 106740	
XAD1008 283815 122087 *	XSPTA1008 107287 122526 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR10 283853	XNBW-R2 106740	

Note

* Finish in special RAL colour

xEnergy Switchboards

Overview of Fitting Kits for IZMX40



VT21709

Section width mm	IZMX40 in section d. of 600/800mm Fixed design in OPPO/EVEN	IZMX40 in section d. of 600/800mm Withdrawable in OPPO	IZMX40 in section depth of 600mm Withdrawable in EVEN
	Article No. per unit	Article No. per unit	Article No. per unit
600	XMIX40F06 166751	XMIX40W06 166754	XMIX40W06-50 166757
	166764 *	166767 *	166770 *
800	XMIX40F08 166752	XMIX40W08 166755	XMIX40W08-50 166758
	166765 *	166768 *	166771 *
1000	XMIX40F10 ** 166753	XMI40W10 ** 166756	
	166766 *	166769 *	

Note

* Finish in special RAL colour

** 1000mm section width is only possible with a section depth of 800mm

xEnergy Switchboards

Accessories for XP Sections (IZMX40), Internal Separation

Partitions



wa_vt71313

VT05611

VT05711

wa_vt0513

Section width mm	Partition busbar area/ connection area (for IZMX40) sect. depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/ connection area (for IZMX40) sect. depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/ switchgear area (for IZMX 40) fixed design Form 2/4 Article No. per unit	Partition busbar area/ switchgear area (for IZMX 40) withdrawable d. Form 2/4 Article No. per unit	Additional partition between mounting plate and main busbar to get an optimal ventilation/ cooling effect (chimney effect) With 4000A XP sections only Article No. per unit	Partition connection area Plexiglass cover Form 4 Article No. per unit
600	XPIX40BCB-H-0602 166226	XPIX40BCB-H-0604 166223	XPIX40FBMCB0606 164349	XPIX40WBMCB0606 166220	-	XPC0606 284116
800	XPIX40BCB-H-0802 166227	XPIX40BCB-H-0804 166224	XPIX40FBMCB0608 166221	XPIX40WBMCB0608 166222	-	XPC0608 284117
1000	-	XPIX40BCB-H-1004 166225	XPIX40FBMCB0610 164347	XPIX40WBMCB0610 164348	XPPBMV10 166741	XPC0610 133078

Partitions (cont.)



VT05511

Section width mm	Partition switchgear a./ switchgear a. when using EVEN/OPPO/ Fixed + withdraw. w. section depth 800mm, in OPPO w. 600mm sect.d. Form 4 Article No. per unit	Partition switchgear a./ switchgear a. when using EVEN/withdraw. with section d. of 600mm only Form 4 Article No. per unit
600	XPMMB0603 166239	XPMMB0602 135264
800	XPMMB0803 166240	XPMMB0802 167314
1000	XPMMBA10 166698	-

Separation panels / Mounting plates



wa_vt62813

VT23509

VT01009

Section width mm	Swivel-mounted separation p. switchgear a./ busbar area Article No. per unit	Separation p. switchgear a./ busbar area Article No. per unit	Partition for EVEN type of connection (partition on the same side) Article No. per unit
600	XPBMB0606-ROT 112313	XPBMB0606 284108	XPIX40BCB-E-06 166742
800	XPBMB0608-ROT 112314	XPBMB0608 284109	XPIX40BCB-E-08 166743
1000	XPBMB0510-ROT 149191	XPBMB0510 133068	XPIX40BCB-E-10 166744

xEnergy Switchboards

Accessories

Accessories



VT24209

Door sealing frame to cover the door cut-out for IZMX40 Fixed design

Article No. per unit

IZMX-DEG40-F
156665

Door sealing frame to cover the door cut-out for IZMX40 Withdrawable

Article No. per unit

IZMX-DEG40-W
156666

Protective cover



wa_vt57313

Adapter frame for protective cover suitable for the IZMX40 series/ Fixed+withdrawable

Article No. per unit

XMIX40-XDT
166750



wa_vt72713

Protective cover suitable for the IZMX40 series/Fixed + withdrawable

Article No. per unit

IZM-DC
122926

Snap-on cover



wa_vt33613

Section width mm

Snap-on cover without cut-out

Article No. per unit

600 **XMC0606**
102946
122418 *

800 **XMC0608**
102947
122419 *

1000 **XMC0610**
102948
122420 *



wa_vt71313

Section width mm

Partition extension for 5000A systems connection area/ main busbar area

Article No. per unit

600 **XPIBCB-H-06019**
150515

800 **XPIBCB-H-08019**
150516

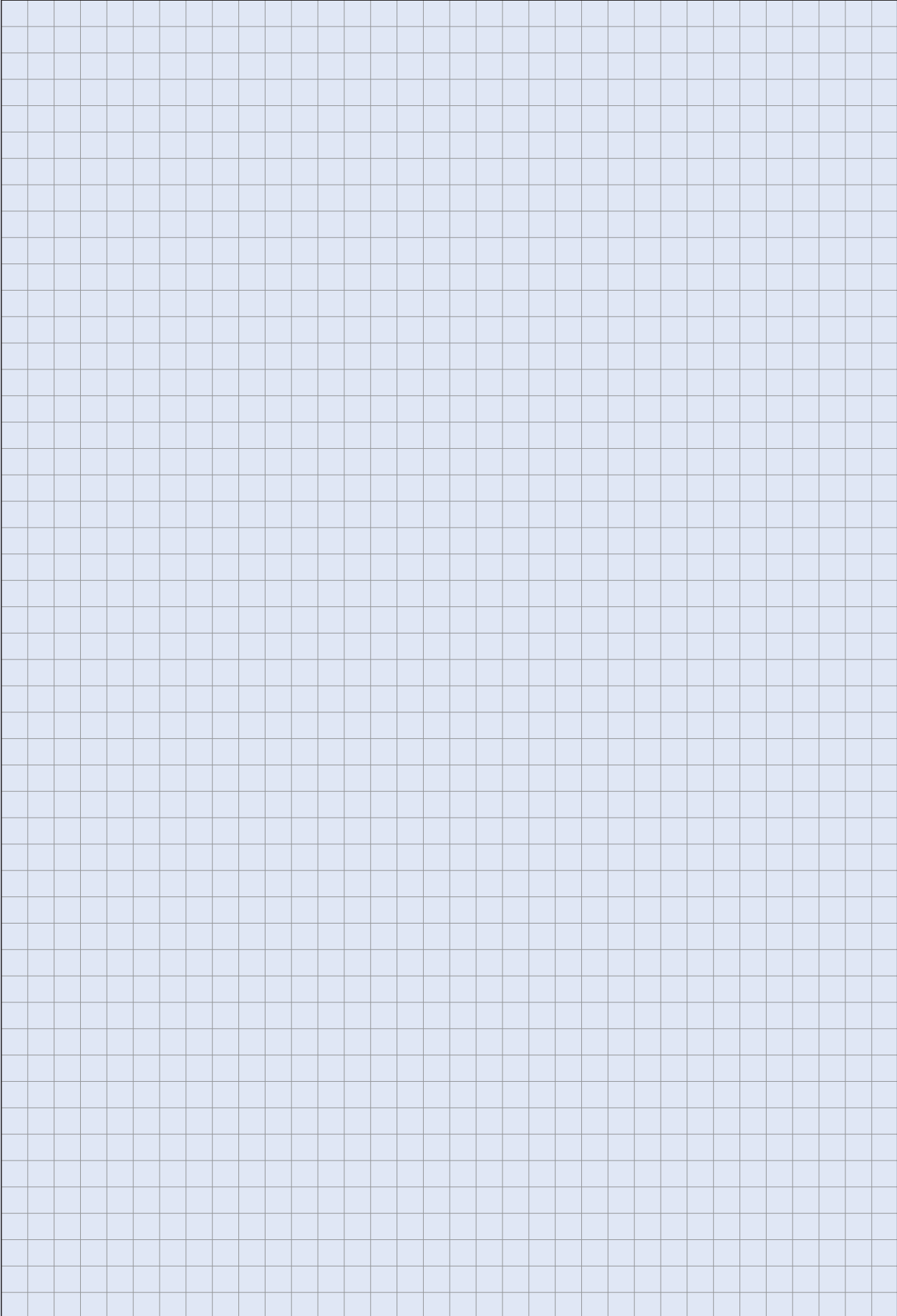
1000 **XPIBCB-H-10019**
150518

Note

* Finish in special RAL colour

xEnergy Switchboards

Notes



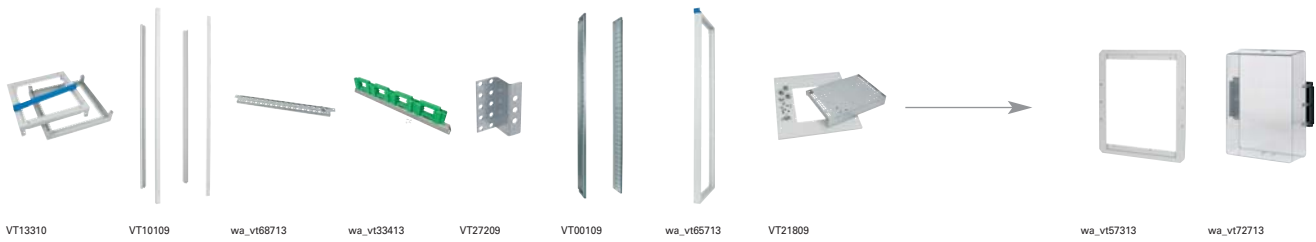
XP Section Incoming Supply IZM 20, Main Busbars rear-mounted (HSS)



VT18310

Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section-depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking ¹⁾	Projection over front edge mm
Circuit breaker IZM 20	65	2000	600	600	3+4	F	Right	OPPO/EVEN	no	0
				600	3+4	W	Right	EVEN	no	115
				600	3+4	F+W	Right	OPPO	no	30
			800	600	3+4	F+W	Right	OPPO/EVEN	no	0

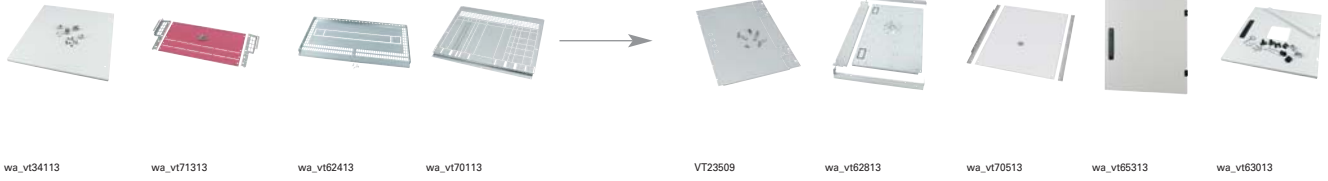
Note ¹⁾ As it is impossible to present all configuration options for the IZM 26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of "Configurations for the IZM 26 series" on page xx.



Frames	Vertical profiles	Crossbar for busbar support	Busbar bracket for main busbar	Busbar bracket for PEN	Fitting kit f.outgoers with circuit breaker	Add-on frame	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI20/3+4/06/06/F_/E+O 132976 133024 *	XMI20/3+4/06/06/F_/E+O/D 134447 134468 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI20/3+4/06/06/_W/E_ 132975 133023 *	XMI20/3+4/06/06/_W/E_/D 134446 134467 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI20/3+4/06/06/F+W/_O 132974 133022 *	XMI20/3+4/06/06/F+W/_O/D 134445 134466 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI20/3+4/06/08/F+W/E_O 132977 133025 *	XMI20/3+4/06/08/F+W/E_O/D 134448 134469 *	XMI26-XDT 151684 151685 *	IZM -DC 122926

Note

* Finish in special RAL colour



Front-Cover closed without cut-out	600 mm Partition connection/main busbar centre	Partition switchgear/switchgear/top	Partition switchgear/connection/main busbar rear Drawer unit	Partition switchgear/connection/main busbar rear fixed	Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover for connection area transparent	Door to switchg. a. closed up to IP55	Door to switch g. a. with cut-out 96/96 up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMC0606 102946 122418 *	XPIBCB-H-0602 133091	XPMMB0604 284164	-	XPI26FBMCB0606 149183	XPBMB0506 133066	XPBMB0506-ROT 149189	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0606 102946 122418 *	XPIBCB-H-0602 133091	XPMMB0604 284164	XPI26BMCB0606 135259	-	XPBMB0506 133066	XPBMB0506-ROT 149189	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0606 102946 122418 *	XPIBCB-H-0602 133091	XPMMB0604 284164	XPI26BMCB0606 135259	XPI26FBMCB0606 149183	XPBMB0506 133066	XPBMB0506-ROT 149189	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0606 102946 122418 *	XPIBCB-H-0604 133092	XPMMB0604 284164	XPI26BMCB0606 135259	XPI26FBMCB0606 149183	XPBMB0506 133066	XPBMB0506-ROT 149189	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *

Note

* Finish in special RAL colour



Door to switchg. a. with cut-out 144/144 up to IP55	Door to switchg. a. ventilated right-hinged up to IP31	Door to switchg. a. ventilated left-hinged up to IP31	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate closed up to IP55	Cover plate for flanges up to IP55	Cover plate in several parts up to IP31 ¹⁾	Protective cover up to IP 31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488
122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488
122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488
122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291	XAD0608 283489
122613 *	122261 *	122252 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *	122081 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. For inserting large cable cross sections, additional measures may be required to ensure the degree of protection.



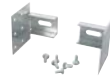
wa_vt66113



VT08106



wa_vt15013



wa_vt58313

Pressure relief flaps	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPTA0606 107280 122519 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	
XSPTA0606 107280 122519 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	
XSPTA0606 107280 122519 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	
XSPTA0608 107281 122520 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	

Note

* Finish in special RAL colour

IZM20 Components

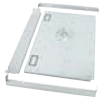


xEnergy Switchboards

Accessories for XP Sections (IZM26/Size 20), Internal Separation

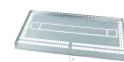
Separation panels / Mounting plates

Separation panels for EVEN type of connection (on the same side)



Section width mm	wa_vt62813	VT23509		Section width mm	VT01009	
	Swivel-mounted separation panel switchgear a./ busbar area suitable for IZM26	Partition switchgear a./ busbar area// (mounting plate) Form 2/4 suitable for IZM26			Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4	
	Article No. per unit	Article No. per unit			Article No. per unit	
600	XPBMB0506-ROT 149189	XPBMB0506 133066		600	XPI26BCB-E-06 151678	
800	XPBMB0508-ROT 149190	XPBMB0508 133067		800	XPI26BCB-E-08 151679	

Partitions



Section width mm	wa_vt71313		wa_vt70113		wa_vt70513		wa_vt62413
	Partition busbar area/ connection area (for IZM26) section depth 600 mm Form 2/4	Partition busbar area/ connection a. (for IZM26) section depth 800 mm Form 2/4	Partition busbar area/ switchgear area (for IZM26) Form 2/4 withdrawable	Partition busbar area/ switchgear area (for IZM26) Form 2/4 fixed	Partition connection area plexiglass cover Form 4		Partition switchgear area/ switchgear area/ Form 4
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit		Article No. per unit
600	XPIBCB-H-0602 133091	XPIBCB-H-0604 133092	XPI26BMCB0606 135259	XPI26FBMCB0606 149183	XPC0606 284116		XPMMB0604 284164
800	XPIBCB-H-0802 133093	XPIBCB-H-0804 133094	XPI26BMCB0608 135260	XPI26FBMCB0608 149184	XPC0608 284117		XPMMB0804 284165

xEnergy Switchboards

Accessories

Accessories



VT24209

Door sealing frame to cover the door cut-out for IZM20/32/40/63

Article No. per unit



wa_vt62513

Adapter frame for IZM26, suitable for protective cover no. 122926

Article No. per unit



wa_vt72713

Protective cover made of plastic for IP55

Article No. per unit

IZM-DEG
122925

XMI26-XDT
151684

151685 *

IZM-DC
122926

Snap-on covers



wa_vt13613

Section width mm

Snap-on cover without cut-out

Article No. per unit

425

XMC0604
102945

122417 *

600

XMC0606
102946

122418 *

800

XMC0608
102947

122419 *

Additional partition for 5000A systems



wa_vt71313

Section width mm

Partition extension for 5000 A application busbar area/ main busbar area/ (suitable for IZM and NZM)

Article No. per unit

600

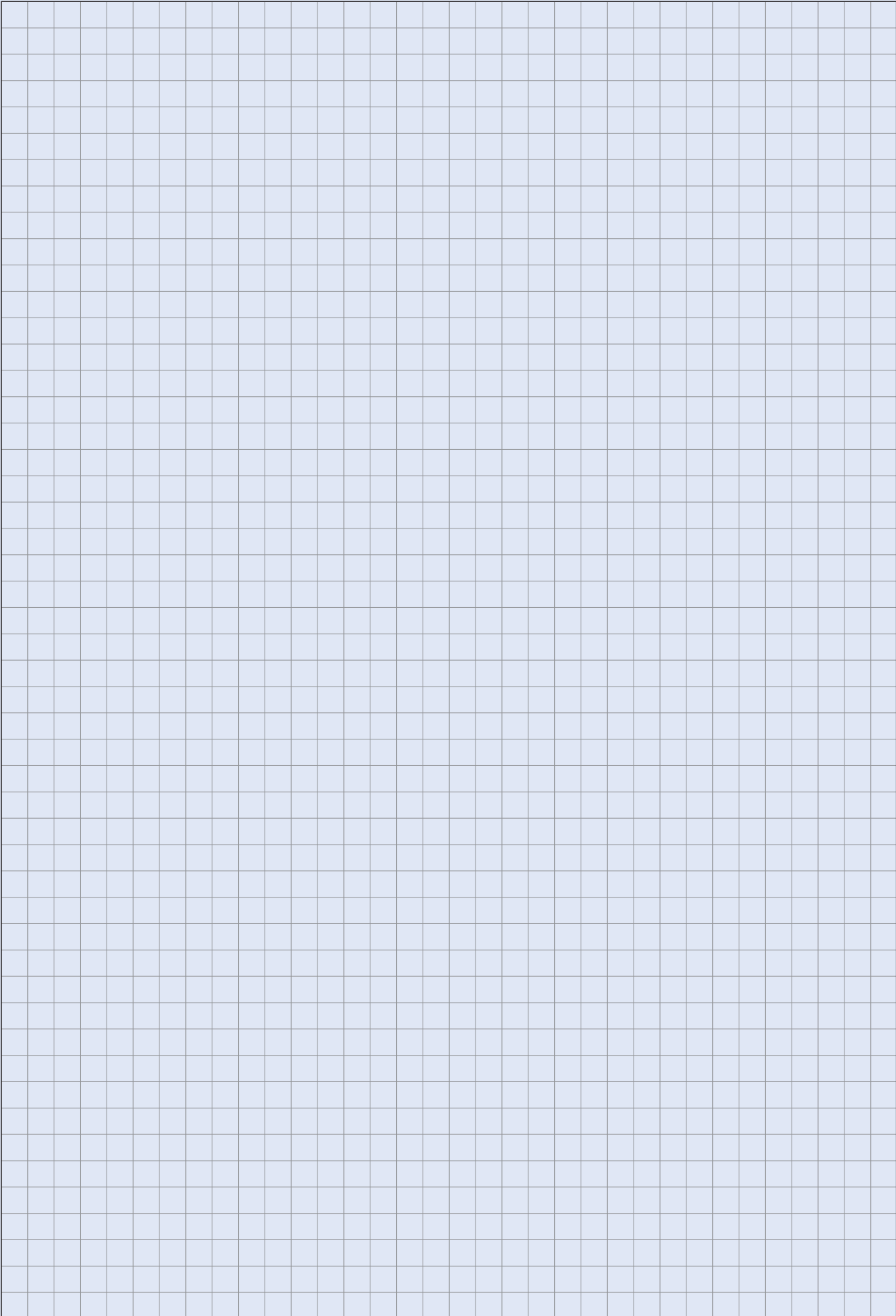
XPIBCB-H-06019
150515

Note

* Finish in special RAL colour

xEnergy Switchboards

Notes



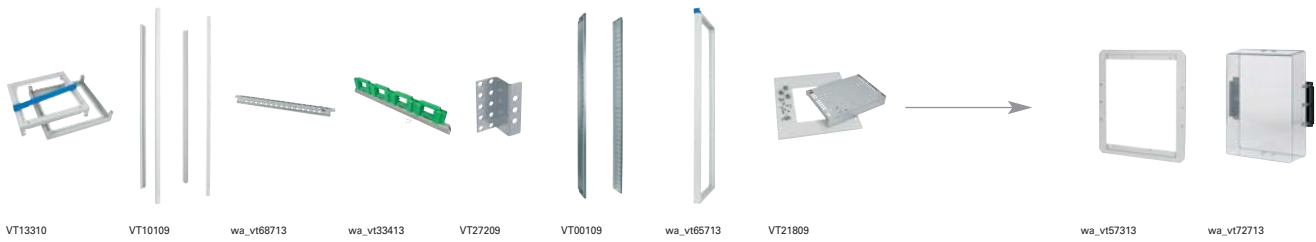
XP Section Incoming Supply IZM 32, Rear-mounted Main Busbars (HSS)



VT18310

Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section-depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking ¹⁾	Projection over front edge mm
Circuit breaker IZM 32	100	3200	600	600	3	F	Center	OPPO/EVEN	no	0
						W	Center	OPPO	no	30
						W	Center	EVEN	no	115
			800	600	3	F+W	Center	OPPO/EVEN	no	0
			600	800	3+4	F	Right	OPPO/EVEN	yes	0
						W	Right	OPPO	yes	30
						W	Right	EVEN	yes	115
			800	800	3+4	F+W	Right	OPPO/EVEN	yes	0

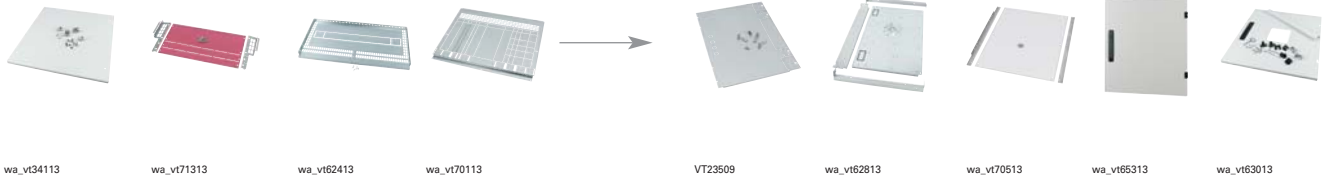
Note ¹⁾ As it is impossible to present all configuration options for the IZM 26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of "Configurations for the IZM 26 series" on page xx.



Frames	Vertical profiles	Crossbar for busbar support	Busbar bracket for main busbar	Busbar bracket for PEN	Fitting kit f.outgoers with circuit breaker	Add-on frame	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI32/3_/06/06/F_/E_O 132978 133026 *	XMI32/3_/06/06/F_/E_O/D 134449 134470 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI32/3_/06/06/_W/_O 132980 133028 *	XMI32/3_/06/06/_W/_O/D 134451 134472 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200106 289908 122389 *	XMI32/3_/06/06/_W/E_ 132981 133029 *	XMI32/3_/06/06/_W/E_/D 134452 134473 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI32/3_/06/08/F+W/E+O 132982 133030 *	XMI32/3_/06/08/F+W/E+O/D 134453 134474 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI32/3+4/08/06/F_/E+O 132983 133031 *	XMI32/3+4/08/06/F_/E+O/D 134454 134475 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI32/3+4/08/06/_W/_O 132985 133033 *	XMI32/3+4/08/06/_W/_O/D 134456 134477 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI32/3+4/08/06/_W/E_ 132986 133034 *	XMI32/3+4/08/06/_W/E_/D 134457 134478 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI32/3+4/08/08/F+W/E+O 132987 133035 *	XMI32/3+4/08/08/F+W/E+O/D 134458 134479 *	XMI26-XDT 151684 151685 *	IZM -DC 122926

Note

* Finish in special RAL colour



Front-Cover closed without cut-out	600 mm Partition connection/main busbar centre	Partition switchgear/switchgear/top	Partition switchgear/connection/main busbar rear Drawer unit	Partition switchgear/connection/main busbar rear fixed	Partition mounting plate switchgear/main busbar	Partition mounting plate switchgear/main busbar pivoting	Cover for connection area transparent	Door to switchg. a. closed up to IP55	Door to switch g. a. with cut-out 96/96 up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMC0606 102946 122418 *	XPIBCB-H-0602 133091	XPMMB0604 284164	-	XPI26FBMCB0606 149183	XPBMB0506 133066	XPBMB0506-ROT 149189	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0606 102946 122418 *	XPIBCB-H-0602 133091	XPMMB0604 284164	XPI26BMB0606 135259	-	XPBMB0506 133066	XPBMB0506-ROT 149189	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0606 102946 122418 *	XPIBCB-H-0602 133091	XPMMB0604 284164	XPI26BMB0606 135259	-	XPBMB0506 133066	XPBMB0506-ROT 149189	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0606 102946 122418 *	XPIBCB-H-0604 133092	XPMMB0604 284164	XPI26BMB0606 135259	XPI26FBMCB0606 149183	XPBMB0506 133066	XPBMB0506-ROT 149189	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-96 112318 122608 *
XMC0608 102947 122419 *	XPIBCB-H-0802 133093	XPMMB0804 284165	-	XPI26FBMCB0608 149184	XPBMB0508 133067	XPBMB0508-ROT 149190	XPC0608 284117	XSDMC0608 284196 122242 *	XSDMC0608-1-96 112319 122609 *
XMC0608 102947 122419 *	XPIBCB-H-0802 133093	XPMMB0804 284165	XPI26BMB0608 135260	-	XPBMB0508 133067	XPBMB0508-ROT 149190	XPC0608 284117	XSDMC0608 284196 122242 *	XSDMC0608-1-96 112319 122609 *
XMC0608 102947 122419 *	XPIBCB-H-0802 133093	XPMMB0804 284165	XPI26BMB0608 135260	-	XPBMB0508 133067	XPBMB0508-ROT 149190	XPC0608 284117	XSDMC0608 284196 122242 *	XSDMC0608-1-96 112319 122609 *
XMC0608 102947 122419 *	XPIBCB-H-0804 133094	XPMMB0804 284165	XPI26BMB0608 135260	XPI26FBMCB0608 149184	XPBMB0508 133067	XPBMB0508-ROT 149190	XPC0608 284117	XSDMC0608 284196 122242 *	XSDMC0608-1-96 112319 122609 *

Note

* Finish in special RAL colour



Door to switchg. a. with cut-out 144/144 up to IP55	Door to switchg. a. ventilated right-hinged up to IP31	Door to switchg. a. ventilated left-hinged up to IP31	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate closed up to IP55	Cover plate for flanges up to IP55	Cover plate in several parts up to IP31 ¹⁾	Protective cover up to IP 31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488
122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488
122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488
122613 *	122261 *	122252 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *
XSDMC0606-1-144 112328	XSDMRV0606 284215	XSDMLV0606 284206	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291	XAD0608 283489
122613 *	122261 *	122252 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *	122081 *
XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293	XAD0806 283811
122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *	122083 *
XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293	XAD0806 283811
122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *	122083 *
XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293	XAD0806 283811
122614 *	122262 *	122253 *	122348 *	122353 *	122119 *	122323 *	122338 *	122308 *	122083 *
XSDMC0608-1-144 112329	XSDMRV0608 284216	XSDMLV0608 284207	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324	XSPBM0808 284294	XAD0808 283812
122614 *	122262 *	122253 *	122348 *	122353 *	122120 *	122324 *	122339 *	122309 *	122084 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. For inserting large cable cross sections, additional measures may be required to ensure the degree of protection.



wa_vt66113



VT08106



wa_vt15013



wa_vt58313

Pressure relief flaps	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPTA0606 107280 122519 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	
XSPTA0606 107280 122519 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	
XSPTA0606 107280 122519 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	
XSPTA0608 107281 122520 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	
XSPTA0806 107283 122522 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740	
XSPTA0806 107283 122522 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740	
XSPTA0806 107283 122522 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740	
XSPTA0808 107284 122523 *	XAP010808 283830 122098 *	XAP020808 283844 122112 *	XAR08 283852	XNBW-R2 106740	

Note

* Finish in special RAL colour

IzM32 Components



xEnergy Switchboards

Overview of Fitting Kits for IZM 32

Including base plate, front plate, fastening bracket and fastening material.

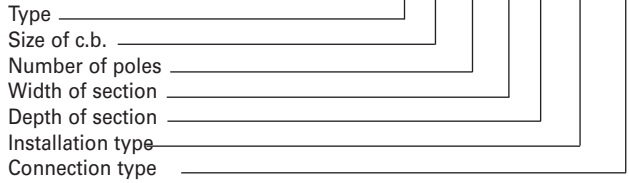


VT21809

- Version 1:** Fixed installation type
- Version 2:** Withdrawable
- Version 3:** Fixed, incl. mechanical locking
- Version 4:** Withdrawable, incl. mechanical locking
- Version 5:** Withdrawable, with position indicator
- O** = OPPO
- E** = EVEN

Key:

XMI32/3+4/06/08/F+W/E+O



Fitting kit	Fitting kit with modular door	Poles OPPO/EVEN Version	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4		
Article No. per unit	Article No. per unit		0	0	0	0	0	E	E	E	E	E	E	E	0	0	0	0	0	E	E	E	E	E	E	E		
		Version	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	
Circuit breaker IZM 32																												
XMI32/3_06/06/F_/_/E+O	XMI32/3_06/06/F_/_/E+O/D																											
132978	134449		X					X																				
133026 *	134470 *																											
XMI32/3_06/06/_W/_O	XMI32/3_06/06/_W/_O/D																											
132980	134451																											
133028 *	134472 *																											
XMI32/3_06/06/_W/E_	XMI32/3_06/06/_W/E_/_/D																											
132981	134452																											
133029 *	134473 *																											
XMI32/3_06/08/F+W/E+O	XMI32/3_06/08/F+W/E+O/D																											
132982	134453		X	X				X	X																			
133030 *	134474 *																											
XMI32/3_4/08/06/F_/_/E+O	XMI32/3_4/08/06/F_/_/E+O/D																											
132983	134454		X		X			X		X				X		X				X		X						
133031 *	134475 *																											
XMI32/3_4/08/06/_W/_O	XMI32/3_4/08/06/_W/_O/D																											
132985	134456																											
133033 *	134477 *																											
XMI32/3+4/08/06/_W/E_	XMI32/3+4/08/06/_W/E_/_/D																											
132986	134457																											
133034 *	134478 *																											
XMI32/3_4/08/08/F+W/E+O	XMI32/3_4/08/08/F+W/E+O/D																											
132987	134458		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
133035 *	134479 *																											
XMI40/3+4/10/08/_W/_O	XMI40/3+4/10/08/_W/_O																											
132988	134459		X	X	X	X	X		X																			
133036 *	134480 *																											
XMI40/3+4/10/08/_W/E_	XMI40/3+4/10/08/_W/E_/_/D																											
135254	135252																											
135255 *	135253 *																											
XMI40/3+4/11/08/F+W/_O	-																											
149187			X	X	X	X	X																					
149197 *																												
XMI40/3+4/11/08/F+W/E_	-																											
149188																												
149198 *																												

Switchgear size IZM 32 can be installed in all of the marked fitting kits (in their different versions).

E.g. IZM32/3POL/W/OPPO can also be installed in: see marking ○

Note

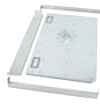
* Finish in special RAL colour

xEnergy Switchboards

Accessories for XP Sections (IZM26/Size 32), Internal Separation

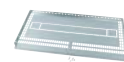
Separation panels / Mounting plates

Separation panels for EVEN type of connection (on the same side)



Section width mm	wa_vt62813	VT23509		Section width mm	VT01009	
	Swivel-mounted separation panel switchgear a./ busbar area suitable for IZM26	Partition switchgear a./ busbar area// (mounting plate) Form 2/4 suitable for IZM26			Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4	
	Article No. per unit	Article No. per unit			Article No. per unit	
600	XPBMB0506-ROT 149189	XPBMB0506 133066		600	XPI26BCB-E-06 151678	
800	XPBMB0508-ROT 149190	XPBMB0508 133067		800	XPI26BCB-E-08 151679	

Partitions



Section width mm	wa_vt71313		wa_vt70113		wa_vt70513		wa_vt62413
	Partition busbar area/ connection area (for IZM26) section depth 600 mm Form 2/4	Partition busbar area/ connection a. (for IZM26) section depth 800 mm Form 2/4	Partition busbar area/ switchgear area (for IZM26) Form 2/4 withdrawable	Partition busbar area/ switchgear area (for IZM26) Form 2/4 fixed	Partition connection area plexiglass cover Form 4		Partition switchgear area/ switchgear area/ Form 4
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit		Article No. per unit
600	XPIBCB-H-0602 133091	XPIBCB-H-0604 133092	XPI26MCB0606 135259	XPI26FBMCB0606 149183	XPC0606 284116		XPMMB0604 284164
800	XPIBCB-H-0802 133093	XPIBCB-H-0804 133094	XPI26MCB0608 135260	XPI26FBMCB0608 149184	XPC0608 284117		XPMMB0804 284165

xEnergy Switchboards

Accessories

Accessories



VT24209

Door sealing frame to cover the door cut-out for IZM20/32/40/63

Article No. per unit



wa_vt62513

Adapter frame for IZM26, suitable for protective cover no. 122926

Article No. per unit



wa_vt72713

Protective cover made of plastic for IP55

Article No. per unit

Snap-on covers



wa_vt13613

Section width mm

Snap-on cover without cut-out

Article No. per unit

IZM-DEG
122925

XMI26-XDT
151684

151685 *

IZM-DC
122926

425

XMC0604
102945

122417 *

600

XMC0606
102946

122418 *

800

XMC0608
102947

122419 *

Additional partition for 5000A systems



wa_vt71313

Section width mm

Partition extension for 5000 A application busbar area/ main busbar area/ (suitable for IZM and NZM)

Article No. per unit

600

XPIBCB-H-06019
150515

800

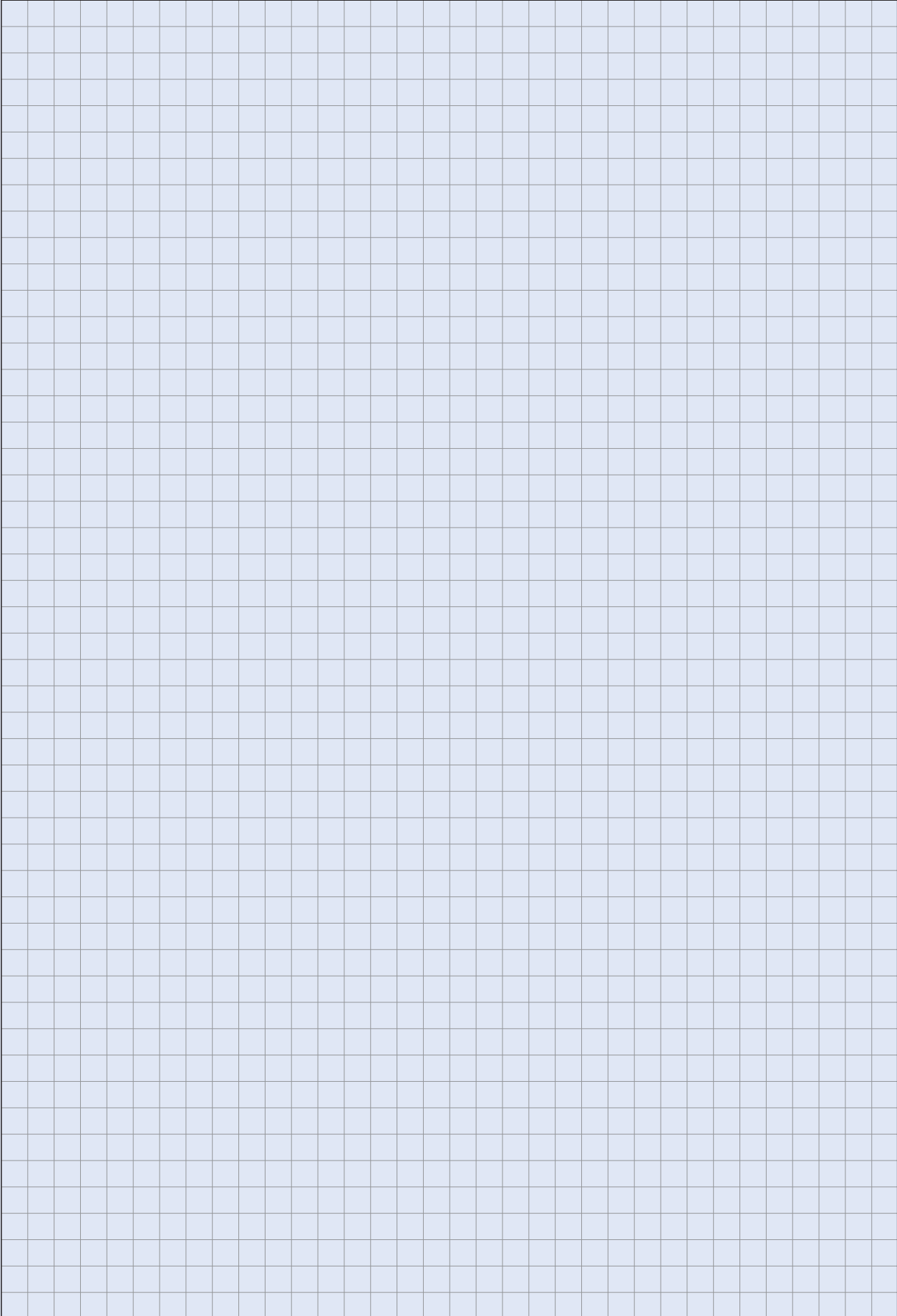
XPIBCB-H-08019
150516

Note

* Finish in special RAL colour

xEnergy Switchboards

Notes



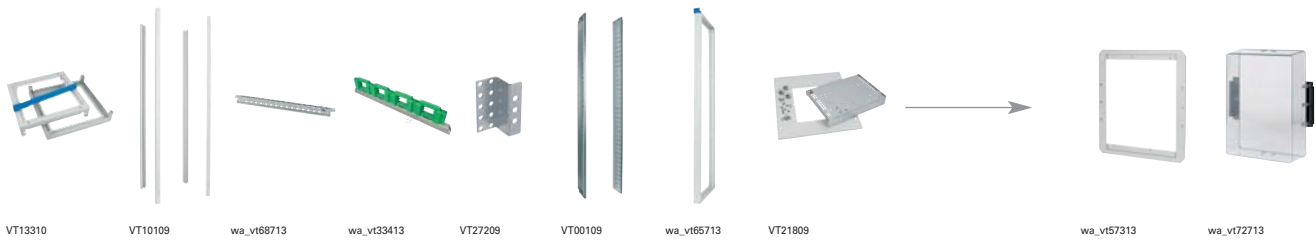
XP Section Incoming Supply IZM 40, Rear-mounted Busbars (HSS)



VT18310

Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section-depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking ¹⁾	Projection over front edge mm
Circuit breaker IZM 40	100	4000	800	1000	3+4	W	Left	OPPO	yes 3-pole only	0
								EVEN	yes 3-pole only	50
			1100		3+4	F+W	Left	EVEN	yes	50
								OPPO	yes	0

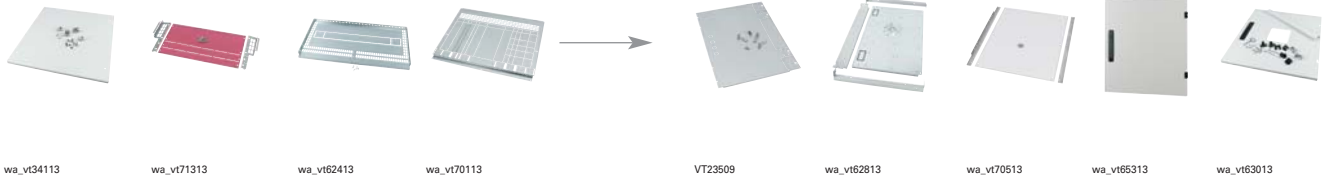
Note ¹⁾ As it is impossible to present all configuration options for the IZM 26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of "Configurations for the IZM 26 series" on page xx.



Frames	Vertical profiles	Crossbar for busbar support	Busbar bracket for main busbar	Busbar bracket for PEN	Fitting kit f. outgoers with circuit breaker	Add-on frame	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI40/3+4/10/08/_W/_O 132988 133036 *	XMI40/3+4/10/08/_W/_O/D 134459 134480 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI40/3+4/10/08/_W/E_ 135254 135253 *	XMI40/3+4/10/08/_W/E_/D 135252 135255 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB1108 132991 133039 *	XSFH20 284245 122288 *	XBBB11 133098	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI40/3+4/11/08/F+W/E_ 149188 149198 *	-	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB1108 132991 133039 *	XSFH20 284245 122288 *	XBBB11 133098	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI40/3+4/11/08/F+W/_O 149187 149197 *	-	XMI26-XDT 151684 151685 *	IZM -DC 122926

Note

* Finish in special RAL colour



Front-Cover closed without cut-out	Partition connection/ main busbar centre	Partition switchgear/ switchgear/ top	Partition switchgear/ connection/ main busbar rear Drawer unit	Partition switchgear/ connection/ main busbar rear fixed	Partition mounting plate switchgear/ main busbar	Partition mounting plate switchgear/ main busbar pivoting	Cover for connection area transparent	Door to switchg. a. closed up to IP55	Door to switch g. a. with cut-out 96/96 up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMC0610 102948 122420 *	XPIBCB-H-1004 133095	XPMMB1004 133081	XPI26BMCB0610 133084	-	XPBMB0510 133068	XPBMB0510-ROT 149191	XPC0610 133078	XSDMC0610 285506 122374 *	XSDMC0610-1-96 112320 122610 *
XMC0610 102948 122420 *	XPIBCB-H-1004 133095	XPMMB1004 133081	XPI26BMCB0610 133084	-	XPBMB0510 133068	XPBMB0510-ROT 149191	XPC0610 133078	XSDMC0610 285506 122374 *	XSDMC0610-1-96 112320 122610 *
XMC0611 132993 133041 *	XPIBCB-H-1104 133096	XPMMB1104 133082	XPI26BMCB0611 133085	XPI26FBMCB0611 149186	XPBMB0511 133069	XPBMB0511-ROT 149192	XPC0611 133079	XSDMC0611 132995 133043 *	XSDMC0611-1-96 143329 143465 *
XMC0611 132993 133041 *	XPIBCB-H-1104 133096	XPMMB1104 133082	XPI26BMCB0611 133085	XPI26FBMCB0611 149186	XPBMB0511 133069	XPBMB0511-ROT 149192	XPC0611 133079	XSDMC0611 132995 133043 *	XSDMC0611-1-96 143329 143465 *

Note

* Finish in special RAL colour



Door to switchg. a. with cut-out 144/144 up to IP55	Door to switchg. a. ventilated right-hinged up to IP31	Door to switchg. a. ventilated left-hinged up to IP31	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate closed up to IP55	Cover plate for flanges up to IP55	Cover plate in several parts up to IP31 ¹⁾	Protective cover up to IP 31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0610-1-144 112330	XSDMRV0610 285508	XSDMLV0610 285507	XSWC2010 284358	XSWV2010 284363	XAW2008 283858	XSPTC1008 284312	XSPTF1008 284327	XSPBM1008 104530	XAD1008 283815
122615 *	122376 *	122375 *	122349 *	122354 *	122120 *	122327 *	122342 *	122422 *	122087 *
XSDMC0610-1-144 112330	XSDMRV0610 285508	XSDMLV0610 285507	XSWC2010 284358	XSWV2010 284363	XAW2008 283858	XSPTC1008 284312	XSPTF1008 284327	XSPBM1008 104530	XAD1008 283815
122615 *	122376 *	122375 *	122349 *	122354 *	122120 *	122327 *	122342 *	122422 *	122087 *
XSDMC0611-1-144 143328	XSDMRV0611 132997	XSDMLV0611 132999	XSWC2011 133000	XSWV2011 133002	XAW2008 283858	XSPTC1108 133004	XSPTF1108 133006	XSPBM1108 133008	XAD1108 133010
143464 *	133045 *	133047 *	133048 *	133050 *	122120 *	133052 *	133054 *	133056 *	133058 *
XSDMC0611-1-144 143328	XSDMRV0611 132997	XSDMLV0611 132999	XSWC2011 133000	XSWV2011 133002	XAW2008 283858	XSPTC1108 133004	XSPTF1108 133006	XSPBM1108 133008	XAD1108 133010
143464 *	133045 *	133047 *	133048 *	133050 *	122120 *	133052 *	133054 *	133056 *	133058 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. For inserting large cable cross sections, additional measures may be required to ensure the degree of protection.



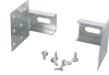
wa_vt66113



VT08106



wa_vt15013



wa_vt58313

Pressure relief flaps	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPTA1008 107287 122526 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR10 283853	XNBW-R2 106740	
XSPTA1008 107287 122526 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR10 283853	XNBW-R2 106740	
XSPTA1108 133016 133064 *	XAP011108 133012 133060 *	XAP021108 133014 133062 *	XAR11 133098	XNBW-R2 106740	
XSPTA1108 133016 133064 *	XAP011108 133012 133060 *	XAP021108 133014 133062 *	XAR11 133098	XNBW-R2 106740	

Note

* Finish in special RAL colour

IZM40 Components



xEnergy Switchboards

Overview of Fitting Kits for IZM 40

Including base plate, front plate, fastening bracket and fastening material.

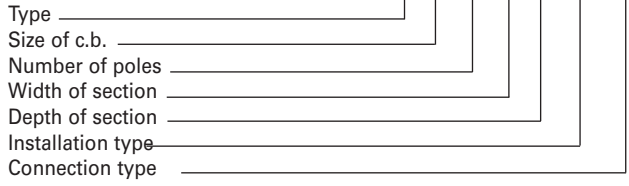


VT21809

- Version 1:** Fixed installation type
- Version 2:** Withdrawable
- Version 3:** Fixed, incl. mechanical locking
- Version 4:** Withdrawable, incl. mechanical locking
- Version 5:** Withdrawable, with position indicator
- O** = OPPO
- E** = EVEN

Key:

XMI40/3+4/06/08/F+W/E+O



Fitting kit	Fitting kit with modular door	Poles OPPO/EVEN Version	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4		
Article No. per unit	Article No. per unit		0	0	0	0	0	E	E	E	E	E	E	E	0	0	0	0	0	E	E	E	E	E	E		
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3		
Circuit breaker IZM 40																											
XMI40/3+4/10/08/_W/_O 132988 133036 *	XMI40/3+4/10/08/_W/_O 134459 134480 *			X		X	X	X							X	X							X				
XMI40/3+4/10/08/_W/E_ 135254 135255 *	XMI40/3+4/10/08/_W/E_/D 135252 135253 *								X		X	X												X			
XMI40/3+4/11/08/F+W/_O 149187 149197 *	-		X	X	X	X	X								X	X	X	X	X								
XMI40/3+4/11/08/F+W/E_ 149188 149198 *	-							X	X	X	X	X								X	X	X	X	X	X	X	
XMI63/3_/11/08/F+W/E+O 132989 133037 *	XMI63/3_/11/08/F+W/E+O/D 132989 133037 *																										
XMI63/3+4/135/08/F+W/E+O 132990 133038 *	XMI63/3+4/135/08/F+W/E+O/D 134461 134482 *																										
XMI63/3+4/135/08/F+W/E+O 132990 133038 * in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	XMI63/3+4/135/08/F+W/E+O/D 134461 134482 * in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)																										

Switchgear size IZM 40 can be installed in all of the marked fitting kits (in their different versions).

E.g. IZM40/3POL/W/EVEN can also be installed in: see markings O

Note

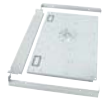
* Finish in special RAL colour

xEnergy Switchboards

Accessories for XP Sections (IZM26/Size 40), Internal Separation

Separation panels / Mounting plates

Separation panels for EVEN type of connection (on the same side)



wa_vt62813



VT23509



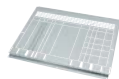
VT01009

Section width mm	Swivel-mounted separation panel switchgear a./busbar area suitable for IZM26 Article No. per unit	Partition switchgear a./busbar area// (mounting plate) Form 2/4 suitable for IZM26 Article No. per unit	Section width mm	Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4 Article No. per unit
1000	XPBMB0510-ROT 149191	XPBMB0510 133068	1000	XPI26BCB-E-10 151680
1100	XPBMB0511-ROT 149192	XPBMB0511 133069	1100	XPI26BCB-E-11 151681

Partitions



wa_vt71313



wa_vt70113



wa_vt70513



wa_vt62413

Section width mm	Partition busbar area/ connection area (for IZM26) section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/ connection a. (for IZM26) section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/ switchgear area (for IZM26) Form 2/4 withdrawable Article No. per unit	Partition busbar area/ switchgear area (for IZM26) Form 2/4 fixed Article No. per unit	Partition connection area plexiglass cover Form 4 Article No. per unit	Partition switchgear area/ switchgear area/ Form 4 Article No. per unit
600	XPIBCB-H-0602 133091	XPIBCB-H-0604 133092	XPI26MCB0606 135259	XPI26FBMCB0606 149183	XPC0606 284116	XPMMB0604 284164
800	XPIBCB-H-0802 133093	XPIBCB-H-0804 133094	XPI26MCB0608 135260	XPI26FBMCB0608 149184	XPC0608 284117	XPMMB0804 284165
1000	-	XPIBCB-H-1004 133095	XPI26MCB0610 133084	XPI26FBMCB0610 149185	XPC0610 133078	XPMMB1004 133081
1100	-	XPIBCB-H-1104 133096	XPI26MCB0611 133085	XPI26FBMCB0611 149186	XPC0611 133079	XPMMB1104 133082

xEnergy Switchboards

Accessories

Accessories



VT24209

Door sealing frame to cover the door cut-out for IZM20/32/40/63

Article No. per unit



wa_vt62513

Adapter frame for IZM26, suitable for protective cover no. 122926

Article No. per unit



wa_vt72713

Protective cover made of plastic for IP55

Article No. per unit

Snap-on covers



wa_vt13613

Section width mm

Snap-on cover without cut-out

Article No. per unit

IZM-DEG
122925

XMI26-XDT
151684

151685 *

IZM-DC
122926

425

XMC0604
102945

122417 *

600

XMC0606
102946

122418 *

800

XMC0608
102947

122419 *

1000

XMC0610
102948

122420 *

1100

XMC0611
132993

133041 *

Additional partition for 5000A systems



wa_vt71313

Section width mm

Partition extension for 5000 A application busbar area/ main busbar area/ (suitable for IZM and NZM)

Article No. per unit

1000

XPIBCB-H-10019
150518

1100

XPIBCB-H-11019
150519

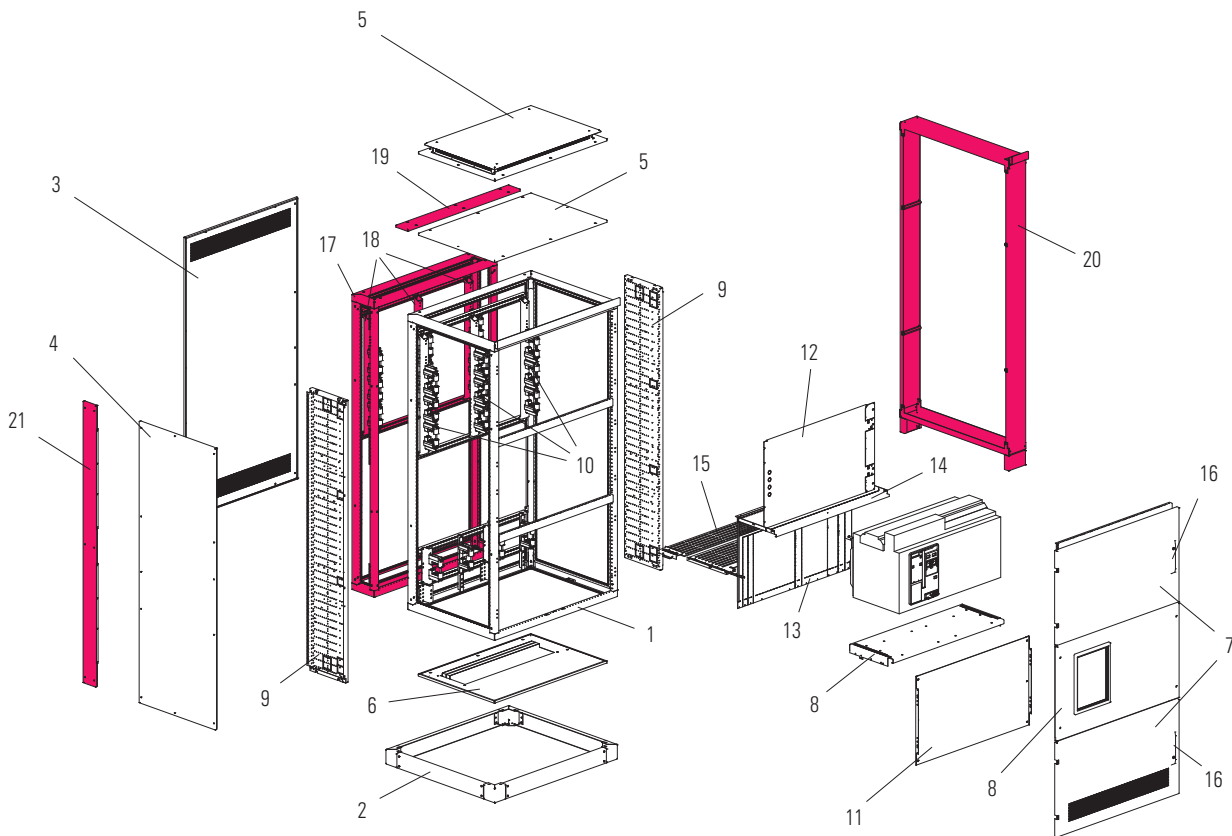
Note

* Finish in special RAL colour

xEnergy Switchboards

XP Section IZM; IZM63 up to 5000 A

Kat.5000_EX_1



Abbreviations:

EVEN Main busbars and connection area are on the same side

OPPO Main busbars and connection area are opposite each other

- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Fitting kit
- 9 Universal mounting plate
- 10 Main busbar support
- 11 PVC cover
- 12 Partition main busbar area/switchgear area (mounting plate)
- 13 Partition main busb. area/switchg. area
- 14 Partition switchgear area/switchgear area
- 15 Partition main busbar area/cable connection a.
- 16 Lock mechanism

Additional parts for 5000 A construction

- 17 Frame 200 mm depth
- 18 Main busbar support
- 19 Top panel 200 mm depth
- 20 Add-on frame 150 mm width
- 21 Side panel 200 mm depth

Features

- section widths of 1100/1350 mm
- section depth of 1000 (800 + 200) mm
- fixed or withdrawable design
- suitable as a coupling section
- up to 5000 A
- Form 4
- IP31, IP55 with protective cover
- to be operated from outside
- suitable for switchgear with remote operation

Notes

Frame comes with a blue design strip.
Doors include a locking system for a 3 mm two-way key bit.
All parts are pre-drilled and include all fixing materials.
For IP55 a protective cover needs to be ordered in addition.

If you use a counter-locking system, please make sure the fitting kit is sufficient (see overview fitting kits)!
Where cover plates of several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

XP Section Incoming Supply IZM 63, Rear-mounted Busbars (HSS)

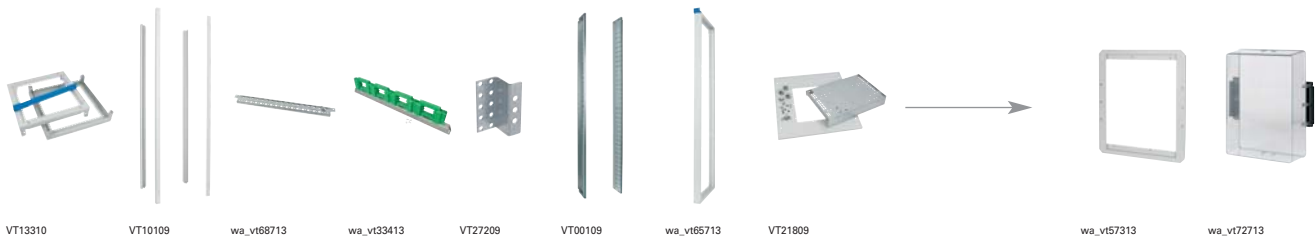


VT18310

Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section-depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking ¹⁾	Projection over front edge mm
Circuit breaker IZM 63	100	4000	800	1100	3	W	Left	EVEN	no	0
			1350		3+4	W	Left	EVEN/OPPO	3-pole: yes 4-pole: no	0
									yes	0

Note

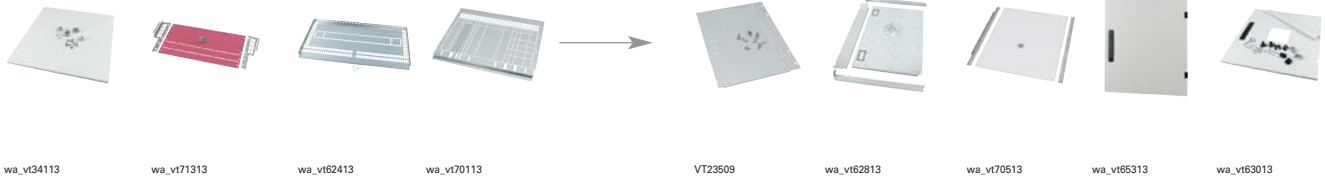
¹⁾ As it is impossible to present all configuration options for the IZM 26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of "Configurations for the IZM 26 series" on page xx.



Frames	Vertical profiles	Crossbar for busbar support	Busbar bracket for main busbar	Busbar bracket for PEN	Fitting kit f. outgoers with circuit breaker	Add-on frame	Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSFB1108 132991 133039 *	XSFH20 284245 122288 *	XBBB11 133098	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI63/3_/11/08/F+W/E+O 132989 133037 *	XMI63/3_/11/08/F+W/E+O/D 134460 134481 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB13508 132992 133040 *	XSFH20 284245 122288 *	XBBB135 133099	see page xx	XBSP 283872	XSMIB20 284257	XSAF200108 289909 122390 *	XMI63/3+4/135/08/F+W/E+O 132990 133038 *	XMI63/3+4/135/08/F+W/E+O/D 134461 134482 *	XMI26-XDT 151684 151685 *	IZM -DC 122926
XSFB13508 132992 133040 *	XSFH20 284245 122288 *	XBBB135 133099	see page xx	XBSP 283872	XSMIB20-Z 150399	XSAF200108 289909 122390 *	XMI63/3+4/135/08/F+W/E+O 132990 133038 *	XMI63/3+4/135/08/F+W/E+O/D 134461 134482 *	XMI26-XDT 151684 151685 *	IZM -DC 122926

Note

* Finish in special RAL colour



Front-Cover closed without cut-out	Partition connection/ main busbar centre	Partition switchgear/ switchgear/ top	Partition switchgear/ connection/ main busbar rear Drawer unit	Partition switchgear/ connection/ main busbar rear fixed	Partition mounting plate switchgear/ main busbar	Partition mounting plate switchgear/ main busbar pivoting	Cover for connection area transparent	Door to switchg. a. closed up to IP55	Door to switch g. a. with cut-out 96/96 up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMC0611 132993 133041 *	XPIBCB-H-1104 133096	XPMMB1104 133082	XPIBCB0611 133085	XPI26FBCB0611 149186	XPBMB0511 133069	XPBMB0511-ROT 149192	XPC0611 133079	XSDMC0611 132995 133043 *	XSDMC0611-1-96 143329 143465 *
XMC06135 132994 133042 *	XPIBCB-H-13504 133097	XPMMB13504 133083	XPIBCB06135 133086	-	XPBMB05135 133070	XPBMB05135-ROT 149193	XPC06135 133080	XSDMC06135 132996 133044 *	XSDMC06135-1-96-S 143285
XMC06135 132994 133042 *	XPIBCB-H-13504 133097	XPMMB13504 133083	XPIBCB06135 133086	-	XPBMB05135 133070	XPBMB05135-ROT 149193	XPC06135 133080	XSDMC06135 132996 133044 *	XSDMC06135-1-96-S 143285

Note

* Finish in special RAL colour



Door to switchg. a. with cut-out 144/144 up to IP55	Door to switchg. a. ventilated right-hinged up to IP31	Door to switchg. a. ventilated left-hinged up to IP31	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate closed up to IP55	Cover plate for flanges up to IP55	Cover plate in several parts up to IP31 ¹⁾	Protective cover up to IP 31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC0611-1-144 143328	XSDMRV0611 132997	XSDMLV0611 132999	XSWC2011 133000	XSWV2011 133002	XAW2008 283858	XSPTC1108 133004	XSPTF1108 133006	XSPBM1108 133008	XAD1108 133010
143464 *	133045 *	133047 *	133048 *	133050 *	122120 *	133052 *	133054 *	133056 *	133058 *
XSDMC06135-1-144 143284	XSDMV06135 132998	XSDMV06135 132998	XSWC20135 133001	XSWV20135 133003	XAW2008 283858	XSPTC13508 133005	XSPTF13508 133007	XSPBM13508 133009	XAD13508 133011
149195 *	133046 *	133046 *	133049 *	133051 *	122120 *	133053 *	133055 *	133057 *	133059 *
XSDMC06135-1-144 143284	XSDMV06135 132998	XSDMV06135 132998	XSWC20135 133001	XSWV20135 133003	XAW2008 283858	XSPTC13508 133005	XSPTF13508 133007	XSPBM13508 133009	XAD13508 133011
149195 *	133046 *	133046 *	133049 *	133051 *	122120 *	133053 *	133055 *	133057 *	133059 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. For inserting large cable cross sections, additional measures may be required to ensure the degree of protection.



wa_vt66113



VT08106



wa_vt15013



wa_vt58313

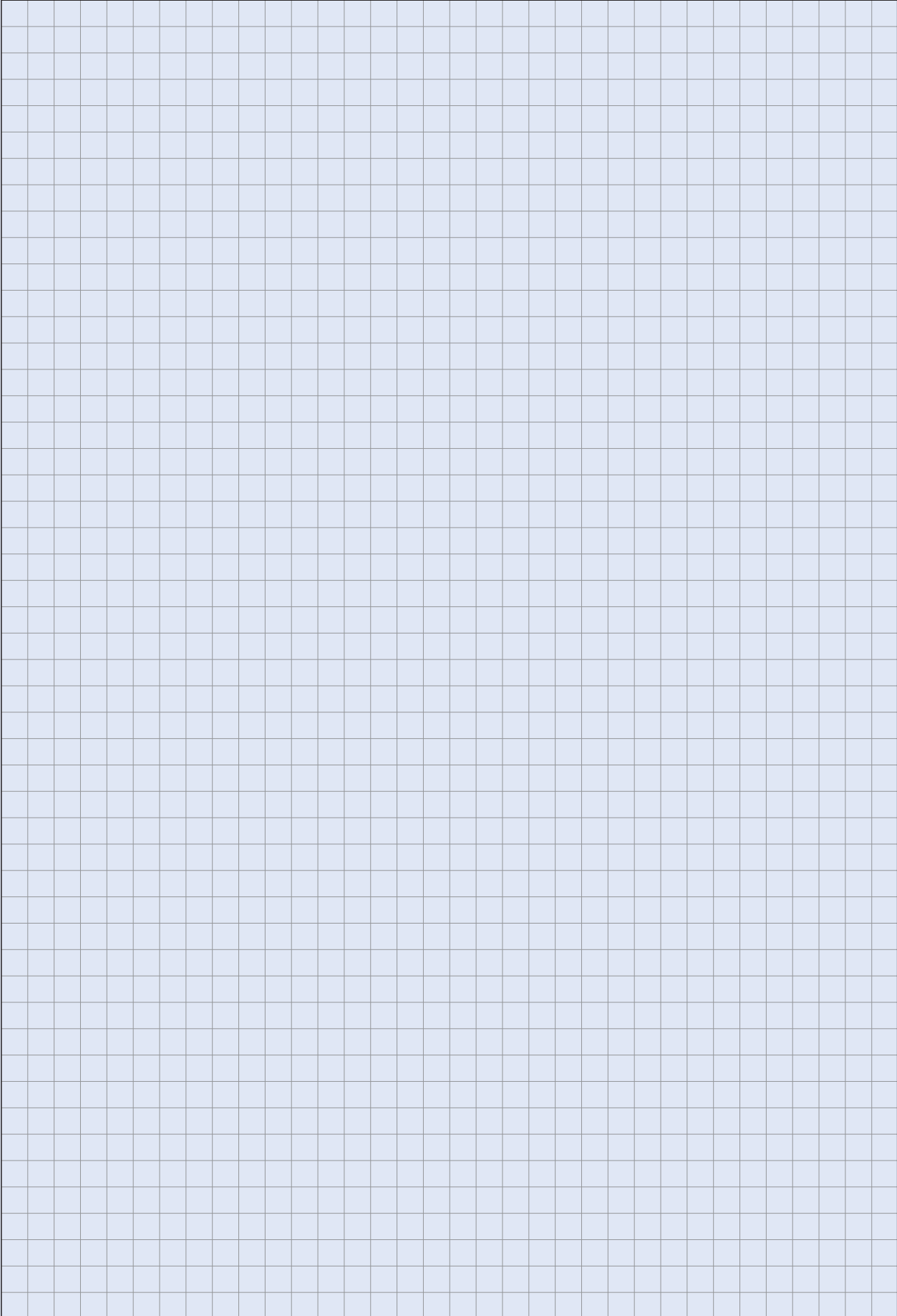
Pressure relief flaps	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPTA1108 133016 133064 *	XAP011108 133012 133060 *	XAP021108 133014 133062 *	XAR11 133098	XNBW-R2 106740	
XSPTA13508 133017 133065 *	XAP0113508 133013 133061 *	XAP0213508 133015 133063 *	XAR135 133077	XNBW-R2 106740	
XSPTA13508 133017 133065 *	XAP0113508 133013 133061 *	XAP0213508 133015 133063 *	XAR135 133077	XNBW-R2 106740	

Note

* Finish in special RAL colour

xEnergy Switchboards

Notes



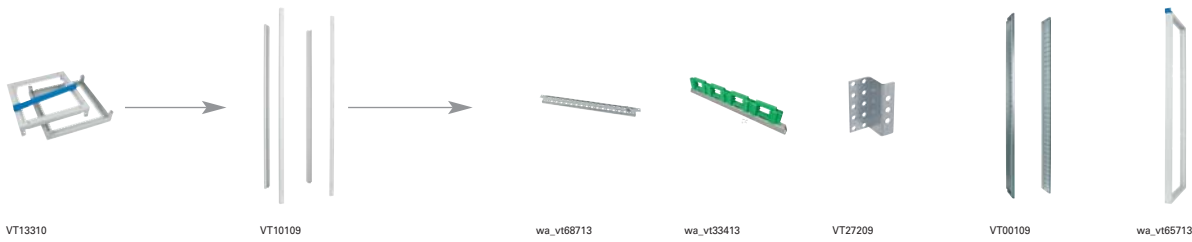
XP Section Incoming Supply IZM 63, Rear-mounted Busbars (HSS), Rated Current up to 5000 A



VT00211

Circuit breaker	I_{cc} up to (400 V AC) kA	I_e up to A	Section-depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Cut-out in the cover	Connection type	Mechanical locking ¹⁾	Projection over front edge mm
Circuit breaker IZM 63	100	5000	800+200	1100	3	W	Left	EVEN	no	0
				1350	3+4	W	Left	EVEN/OPPO	3-pole: yes 4-pole: no	0
				1350	4	W	Left	EVEN/OPPO	4-pole: yes	0
									yes	0

Note ¹⁾ As it is impossible to present all configuration options for the IZM 26 series with cross-locking, it may be necessary to select a suitable fitting kit from the list of "Configurations for the IZM 26 series" on page xx.



Frames	Frames Depth 200 mm ²⁾	Vertical profiles	Vertical profiles for add-on sections ²⁾	Crossbar for busbar support	Busbar bracket for main busbar	Busbar bracket for PEN	Fitting kit for outgoers with circuit breaker	Add-on frame ²⁾
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSFB1108 132991 133039 *	XSFB1102 150469	XSFB20 284245 122288 *	XSFB20-I-D 150482	XBBB11 133098	see page xx	XBSP 283872	XSMIB20 284257	XSAF2000-150-1000 150493
XSFB13508 132992 133040 *	XSFB13508 150481	XSFB20 284245 122288 *	XSFB20-I-D 150482	XBBB135 133099	see page xx	XBSP 283872	XSMIB20 284257	XSAF2000-150-1000 150493
XSFB13508 132992 133040 *	XSFB13508 150481	XSFB20 284245 122288 *	XSFB20-I-D 150482	XBBB135 133099	see page xx	XBSP 283872	XSMIB20-Z 150399	XSAF2000-150-1000 150493

Note

* Finish in special RAL colour

²⁾ Additional parts for rated current 5000 A



Fitting kits for IZM	Fitting kits for IZM with modular doors	Add-on frame in combination with protective cover	Protective cover necessary for IP55	Front cover closed without cut-out	Partition connection/main busbar centre	Partition connection/main busbar centre ²⁾	Partition switchgear/switchgear/top
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XMI63/3_/11/08/F+W/E+O 132989 133037 *	XMI63/3_/11/08/F+W/E+O/D 134460 134481 *	XMI26-XDT 151684 151685 *	IZM -DC 122926	XMC0611 132993 133041 *	XPIBCB-H-1104 133096	XPIBCB-H-11019 150519	XPMMB1104 133082
XMI63/3+4/135/08/F+W/E+O 132990 133038 *	XMI63/3+4/135/08/F+W/E+O/D 134461 134482 *	XMI26-XDT 151684 151685 *	IZM -DC 122926	XMC06135 132994 133042 *	XPIBCB-H-13504 133097	XPIBCB-H-135019 150521	XPMMB13504 133083
XMI63/3+4/135/08/F+W/E+O 132990 133038 *	XMI63/3+4/135/08/F+W/E+O/D 134461 134482 *	XMI26-XDT 151684 151685 *	IZM -DC 122926	XMC06135 132994 133042 *	XPIBCB-H-13504 133097	XPIBCB-H-135019 150521	XPMMB13504 133083

Note

* Finish in special RAL colour

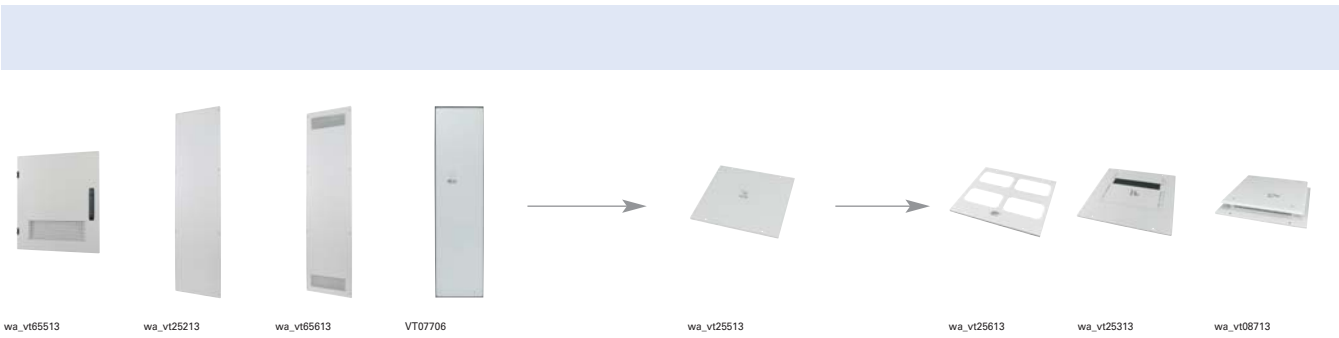
²⁾ Additional parts for rated current 5000 A



Partition switchgear/ connection/ main busbar rear Drawer unit Article No. per unit	Partition switchgear/ connection/ main busbar rear fixed Article No. per unit	Partition mounting plate switchgear/ main busbar Article No. per unit	Partition mounting plate switchgear/ main busbar pivoting Article No. per unit	Cover for connection area transparent Article No. per unit	Door to switchg. a. closed up to IP55 Article No. per unit	Door to switchg. a. with cut-out 96/96 up to IP55 Article No. per unit	Door to switchg. a. with cut-out 144/144 up to IP55 Article No. per unit	Door to switchg. a. ventilated right-hinged up to IP31 Article No. per unit
XPIBMCB0611 133085	XPI26FBMCB0611 149186	XPBMB0511 133069	XPBMB0511-ROT 149192	XPC0611 133079	XSDMC0611 132995 133043 *	XSDMC0611-1-96 143329 143465 *	XSDMC0611-1-144 143328 143464 *	XSDMRV0611 132997 133045 *
XPIBMCB06135 133086	-	XPBMB05135 133070	XPBMB05135-ROT 149193	XPC06135 133080	XSDMC06135 132996 133044 *	XSDMC06135-1-96-S 143285	XSDMC06135-1-144 143284 149195 *	XSDMV06135 132998 133046 *
XPIBMCB06135 133086	-	XPBMB05135 133070	XPBMB05135-ROT 149193	XPC06135 133080	XSDMC06135 132996 133044 *	XSDMC06135-1-96-S 143285	XSDMC06135-1-144 143284 149195 *	XSDMV06135 132998 133046 *

Note

- * Finish in special RAL colour
- 2) Additional parts for rated current 5000 A



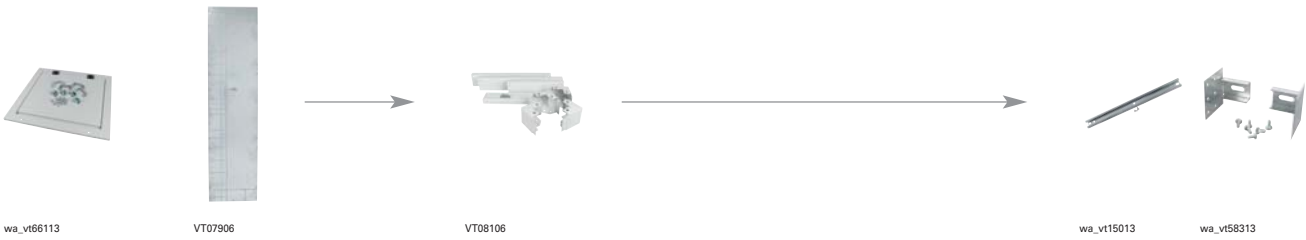
Door to switchg. a. ventilated left-hinged up to IP31	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Side panel for extension frames depth 200 mm up to IP55 ²⁾	Cover plate closed up to IP55 frames	Cover plate closed f. extension depth 200 mm up to IP55 ²⁾	Cover plate for flanges up to IP55 IP31 ¹⁾	Cover plate in several parts up to	Protective cover up to IP 31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMLV0611 132999 133047 *	XSWC2011 133000 133048 *	XSWV2011 133002 133050 *	XAW2008 283858 122120 *	XAW2002 150494	XSPTC1108 133004 133052 *	XSPTC1102 150488	XSPTF1108 133006 133054 *	XSPBM1108 133008 133056 *	XAD1108 133010 133058 *
XSDMV06135 132998 133046 *	XSWC20135 133001 133049 *	XSWV20135 133003 133051 *	XAW2008 283858 122120 *	XAW2002 150494	XSPTC13508 133005 133053 *	XSPTC13502 150490	XSPTF13508 133007 133055 *	XSPBM13508 133009 133057 *	XAD13508 133011 133059 *
XSDMV06135 132998 133046 *	XSWC20135 133001 133049 *	XSWV20135 133003 133051 *	XAW2008 283858 122120 *	XAW2002 150494	XSPTC13508 133005 133053 *	XSPTC13502 150490	XSPTF13508 133007 133055 *	XSPBM13508 133009 133057 *	XAD13508 133011 133059 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.

²⁾ Additional parts for rated current 5000 A



Pressure relief flaps Article No. per unit	Separation panel section/section f. section width 800 mm Article No. per unit	Separation p. section/section f. extension frame depth 200 mm ²⁾ Article No. per unit	Plinth 100 mm Article No. per unit	Plinth 200 mm Article No. per unit	Plinth for add-on frame width 150 mm height 100 mm ²⁾ Article No. per unit	Plinth for add-on frame width 150 mm height 200 mm ²⁾ Article No. per unit	Cable strain relief rail Article No. per unit	Fixing bracket for cable strain relief rail Article No. per unit
XSPTA1108 133016 133064 *	XPSS2008 284179	XPSS2002 150495	XAP011108 133012 133060 *	XAP021108 133014 133062 *	XAP01AF150 150491	XAP02AF150 150492	XAR11 133098	XNBW-R2 106740
XSPTA13508 133017 133065 *	XPSS2008 284179	XPSS2002 150495	XAP0113508 133013 133061 *	XAP0213508 133015 133063 *	XAP01AF150 150491	XAP02AF150 150492	XAR135 133077	XNBW-R2 106740
XSPTA13508 133017 133065 *	XPSS2008 284179	XPSS2002 150495	XAP0113508 133013 133061 *	XAP0213508 133015 133063 *	XAP01AF150 150491	XAP02AF150 150492	XAR135 133077	XNBW-R2 106740

Note

* Finish in special RAL colour

²⁾ Additional parts for rated current 5000 A

IZM63 Components



xEnergy Switchboards

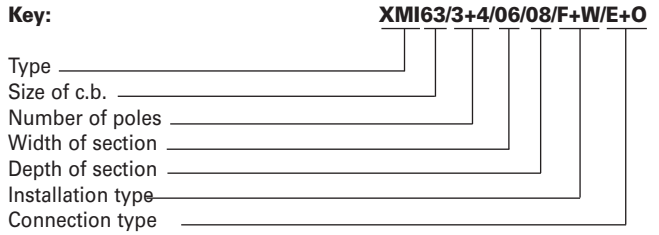
Overview of Fitting Kits for IZM 63

Including base plate, front plate, fastening bracket and fastening material.



VT21809

- Version 1:** Fixed installation type
- Version 2:** Withdrawable
- Version 3:** Fixed, incl. mechanical locking
- Version 4:** Withdrawable, incl. mechanical locking
- Version 5:** Withdrawable, with position indicator
- O** = OPPO
- E** = EVEN



Fitting kit	Fitting kit with modular door	Poles OPPO/EVEN Version	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	
Article No. per unit	Article No. per unit		0	0	0	0	0	E	E	E	E	0	0	0	0	0	E	E	E	E	E	
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Circuit breaker IZM 63																						
XMI63/3_/11/08/F+W/E+O 132989 133037 *	XMI63/3_/11/08/F+W/E+O/D 132989 133037 *		X	X				X	X													
XMI63/3+4/135/08/F+W/E+O 132990 133038 *	XMI63/3+4/135/08/F+W/E+O/D 134461 134482 *		X	X	X	X	X	X	X	X	X	X	X				X	X				
XMI63/3+4/135/08/F+W/E+O 132990 133038 * in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)	XMI63/3+4/135/08/F+W/E+O/D 134461 134482 * in combination with XSMIB20-Z, No. 150399 and intermediate frame (XSAF200108, No. 289909)													X	X	X			X	X	X	

Switchgear size IZM 63 can be installed in all of the marked fitting kits (in their different versions).

E.g. IZM63/3POL/W/OPPO can also be installed in: see markings ○

Note

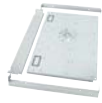
* Finish in special RAL colour

xEnergy Switchboards

Accessories for XP Sections (IZM26/Size 63), Internal Separation

Separation panels / Mounting plates

Separation panels for EVEN type of connection (on the same side)



wa_vt62813



VT23509



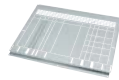
VT01009

Section width mm	Swivel-mounted separation panel switchgear a./ busbar area suitable for IZM26	Partition switchgear a./ busbar area// (mounting plate) Form 2/4 suitable for IZM26		Section width mm	Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4	
	Article No. per unit	Article No. per unit			Article No. per unit	
1100	XPBMB0511-ROT 149192	XPBMB0511 133069		1100	XPI26BCB-E-11 151681	
1350	XPBMB0535-ROT 149193	XPBMB0535 133070		1350	XPI26BCB-E-135 151682	

Partitions



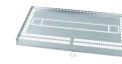
wa_vt71313



wa_vt70113



wa_vt70513



wa_vt62413

Section width mm	Partition busbar area/ connection a. (for IZM26) section depth 800 mm Form 2/4	Partition busbar area/ switchgear area (for IZM26) Form 2/4 withdrawable	Partition busbar area/ switchgear area (for IZM26) Form 2/4 fixed	Partition connection area plexiglass cover Form 4	Partition switchgear area/ switchgear area/ Form 4	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
1100	XPIBCB-H-1104 133096	XPI26MCB0611 133085	XPI26FBMCB0611 149186	XPC0611 133079	XPMMB1104 133082	
1350	XPIBCB-H-13504 133097	XPI26MCB06135 133086	-	XPC06135 133080	XPMMB13504 133083	

xEnergy Switchboards

Accessories

Accessories



VT24209

Door sealing frame to cover the door cut-out for IZM20/32/40/63

Article No. per unit



wa_vt62513

Adapter frame for IZM26, suitable for protective cover no. 122926

Article No. per unit



wa_vt72713

Protective cover made of plastic for IP55

Article No. per unit

Snap-on covers



wa_vt33613

Section width mm

Snap-on cover without cut-out

Article No. per unit

IZM-DEG
122925

XMI26-XDT
151684

151685 *

IZM-DC
122926

425

XMC0604
102945

122417 *

600

XMC0606
102946

122418 *

800

XMC0608
102947

122419 *

1000

XMC0610
102948

122420 *

1100

XMC0611
132993

133041 *

1200

XMC0612
113990

122617 *

1350

XMC06135
132994

133042 *

Additional partition for 5000A systems



wa_vt71313

Section width mm

Partition extension for 5000 A application busbar area/ main busbar area/ (suitable for IZM and NZM)

Article No. per unit

1100

XPIBCB-H-11019
150519

1350

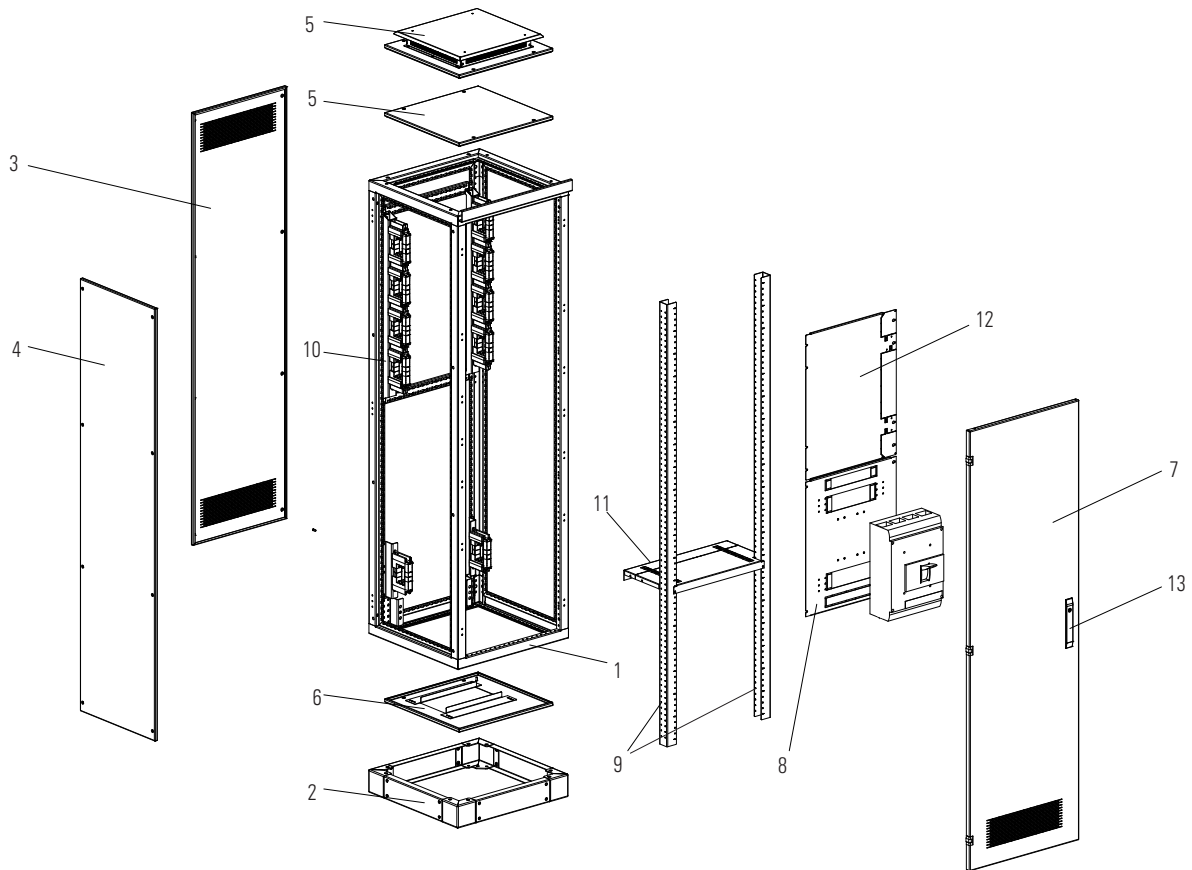
XPIBCB-H-135019
150521

Note

* Finish in special RAL colour

XP Section NZM4 in Form 2

Katalog 2-1 NZM4-2b



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Mounting plate - fitting kit
- 9 Section - fitting kit
- 10 Support for main busbar
- 11 Partition main busbar area/connection area
- 12 Partition main busbar/switchgear area
- 13 Lock mechanism

Features

- Widths of 425/600/800 mm
- Fixed or withdrawable
- 3 or 4 poles
- With a second main busbar it can be used as a coupling section
- 630-1600 A
- Form 2
- IP31/IP55
- Suitable for drill-free cable connection, installation at the top or bottom
- Operation behind the door as high as the section
- Suitable for switchgear with remote operation

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
We recommend NZM3/4-XKSA as a touch protection for the connection copper - see HPL.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durystone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Incoming Supply NZM 4 Form 2, Main Busbars rear-mounted (HSS)

Form 2



VT17810



VT13310



VT10109



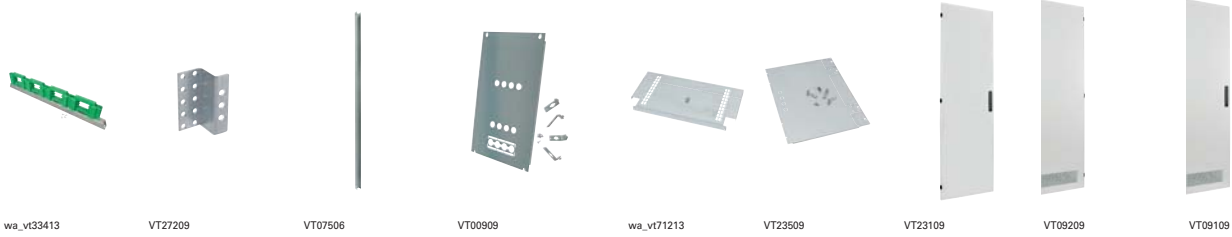
wa_vt68713

		Depth of Section 600 mm							
I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for busbar support Article No. per unit	
Circuit breaker NZM 4									
NZM 4	100	800 - 1600	600	425	3+4	F	XSFB0406 284232 122275 *	XSFBH20 284245 122288 *	XBBB04 283859
				600	3+4	F+W	XSFB0606 284235 122278 *	XSFBH20 284245 122288 *	XBBB06 283860
				800	3+4	F+W	XSFB0806 284238 122281 *	XSFBH20 284245 122288 *	XBBB08 283861

		Depth of Section 800 mm							
I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for busbar support Article No. per unit	
Circuit breaker NZM 4									
NZM 4	100	800 - 1600	800	425	3+4	F	XSFB0408 284233 122276 *	XSFBH20 284245 122288 *	XBBB04 283859
				600	3+4	F+W	XSFB0608 284236 122279 *	XSFBH20 284245 122288 *	XBBB06 283860
				800	3+4	F+W	XSFB0808 284239 122282 *	XSFBH20 284245 122288 *	XBBB08 283861

Note

* Finish in special RAL colour



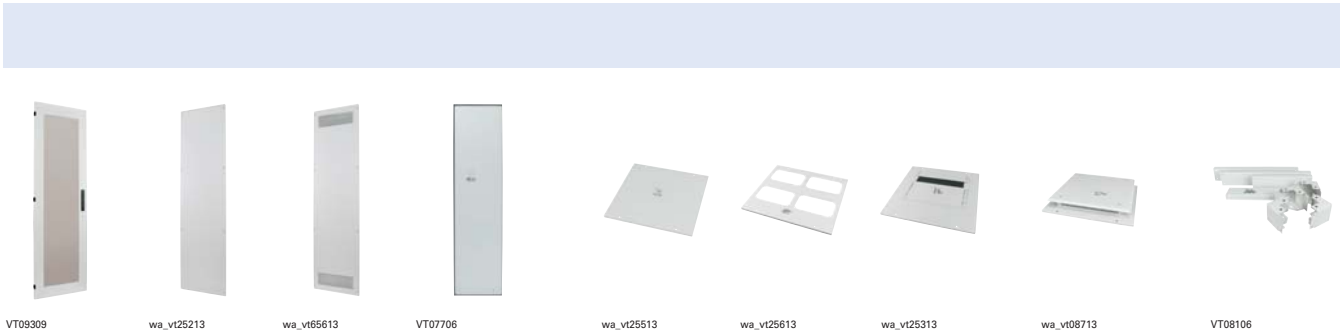
Busbar support	Busbar support for PEN	Universal mounting spar	Mounting plate for NZM4	Partition	Mounting plate	Section door up to IP55 closed	Section door up to IP31 ventilated right	Section door up to IP31 ventilated left
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XBSP 283872	XSMNB20 285511	XMN442404MVF 284081	XPNBCT0404 285502	XPBMB0604 284107	XSDMC2004 284198 122077 *	XSDMRV2004 284218 122264 *	XSDMLV2004 284209 122244 *
see page xx	XBSP 283872	XSMNB20 285511	XMN442406MVF 284085	XPNBCT0604 285504	XPBMB0606 284108	XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *
see page xx	XBSP 283872	XSMNB20 285511	XMN442408MVF 290348	XPNBCT0804 135258	XPBMB0608 284109	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *

Busbar support	Busbar support for PEN	Universal mounting spar	Mounting plate for NZM4	Partition	Mounting plate	Section door up to IP55 closed	Section door up to IP31 ventilated right	Section door up to IP31 ventilated left
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XBSP 283872	XSMNB20 285511	XMN442404MVF 284081	XPNBCB0406 285523	XPBMB0604 284107	XSDMC2004 284198 122244 *	XSDMRV2004 284218 122264 *	XSDMLV2004 284209 122255 *
see page xx	XBSP 283872	XSMNB20 285511	XMN442406MVF 284085	XPNBCB0606 285522	XPBMB0606 284108	XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *
see page xx	XBSP 283872	XSMNB20 285511	XMN442408MVF 290348	XPNBCB0806 135257	XPBMB0608 284109	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *

To cover the connection copper you will need NZM3/4-XKSA

Note

* Finish in special RAL colour



Section door up to IP55 with glass	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate in several parts up to IP31 ¹⁾	Cover plate up to IP31 protective top	Plinth 100 mm
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMD2004 284203	XSWC2004 284355	XSWV2004 284360	XAW2006 283857	XSPTC0406 284302	XSPTF0406 284317	XSPBM0406 284287	XAD0406 283485	XAP010406 283823
122264 *	122249 *	122346 *	122119 *	122317 *	122332 *	122302 *	122077 *	122091 *
XSDMD2006 284204	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488	XAP010606 283826
122250 *	122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *	122094 *
XSDMD2008 284701	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293	XAD0806 283811	XAP010806 283829
122358 *	122348 *	122353 *	122120 *	122323 *	122338 *	122308 *	122083 *	122097 *

Section door up to IP55 with glass	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate in several parts up to IP31 ¹⁾	Cover plate up to IP31 protective top	Plinth 100 mm
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMD2004 284203	XSWC2004 284355	XSWV2004 284360	XAW2008 283858	XSPTC0408 284303	XSPTF0408 284318	XSPBM0408 284288	XAD0408 283486	XAP010408 283824
122249 *	122346 *	122351 *	122120 *	122318 *	122333 *	122303 *	122078 *	122092 *
XSDMD2006 284204	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291	XAD0608 283489	XAP010608 283827
122250 *	122347 *	122352 *	122120 *	122321 *	122336 *	122306 *	122081 *	122095 *
XSDMD2008 284701	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324	XSPBM0808 284294	XAD0808 283812	XAP010808 283830
122358 *	122348 *	122353 *	122120 *	122324 *	122339 *	122309 *	122084 *	122098 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.



VT08106



wa_vt15013



VT07906

Plinth 200 mm	Cable strain relief rail	Separation panel	
Article No. per unit	Article No. per unit	Article No. per unit	
XAP020406 283837 122105 *	XAR04 283850	XPSS2006 284178	
XAP020606 283840 122108 *	XAR06 283851	XPSS2006 284178	
XAP020806 283843 122111 *	XAR08 283852	XPSS2006 284178	

Plinth 200 mm	Cable strain relief rail	Separation panel	
Article No. per unit	Article No. per unit	Article No. per unit	
XAP020408 283838 122106 *	XAR04 283850	XPSS2008 284179	
XAP020608 283841 122109 *	XAR06 283851	XPSS2008 284179	
XAP020808 283844 122112 *	XAR08 283852	XPSS2008 284179	

Note

* Finish in special RAL colour

NZM4 Form 2 Components



xEnergy Switchboards

Components for NZM4 Form 2

Universal mounting spar



VT07506

Universal mounting spar
Article No. per unit unit = 1 pair
XSMNB20 285511

Additional partition for 5000A systems



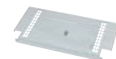
wa_vt71313

Section width mm	Partition extension for 5000 A application busbar area/ main busbar area/ (suitable for IZM and NZM)	Article No. per unit
425		XPIBCB-H-04019 150514
600		XPIBCB-H-06019 150515
800		XPIBCB-H-08019 150516

Mounting plates, Partitions



VT00909



wa_vt71213

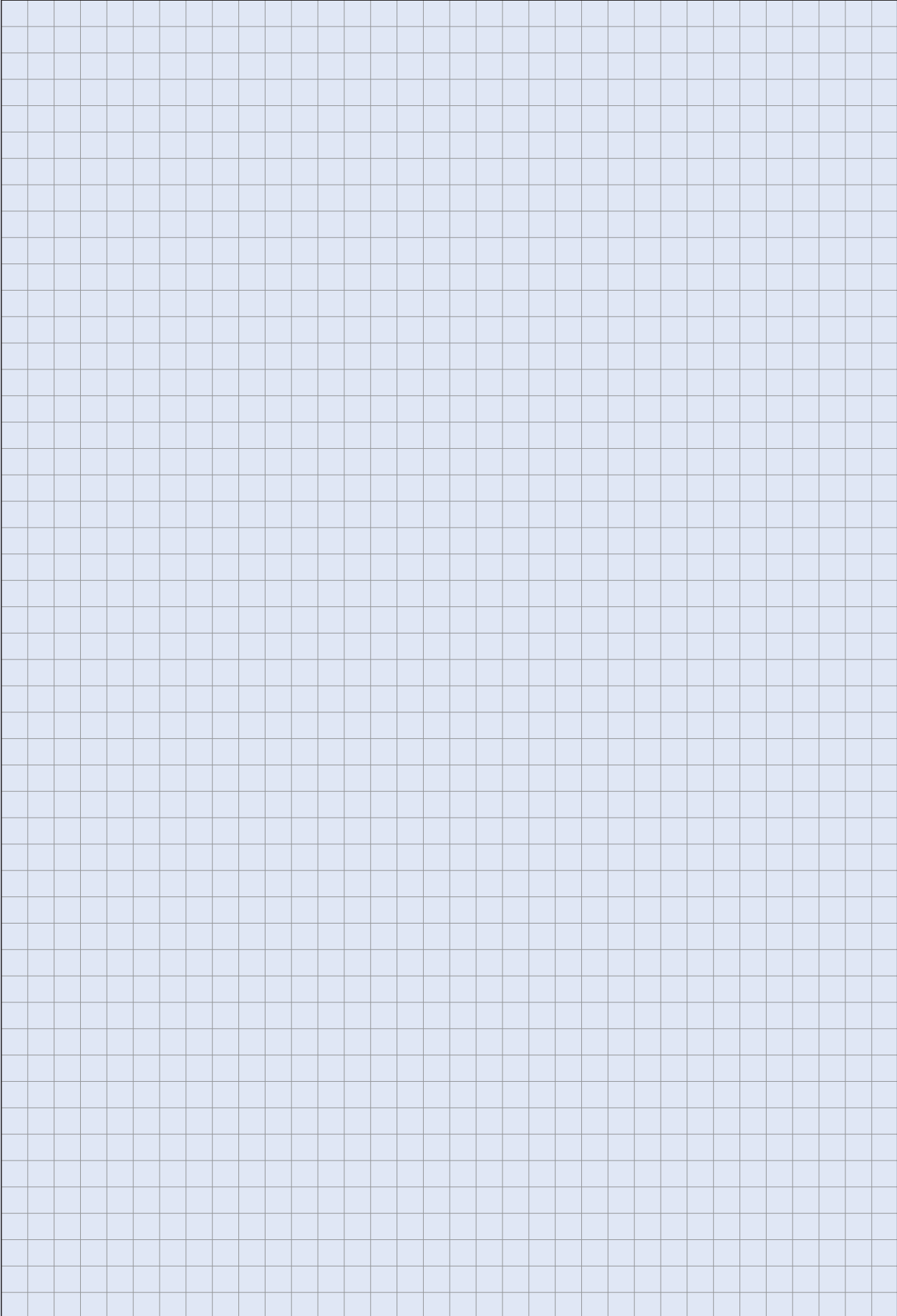


wa_vt71213

Section width mm	Mounting plate for NZM4 Form 2	Mounting plate/ partition	Partition connection a./ busbar area (only NZM) section depth 400 mm Form 2	Partition connection a./ busbar area (only NZM) section depth 600 mm Form 2	Partition connection a./ busbar area (only NZM) section depth 800 mm Form 2
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XMN442404MVF 284081	XPBMB0604 284107	XPNBCT0402 285501	XPNBCT0404 285502	XPNBBC0406 285523
600	XMN442406MVF 284085	XPBMB0606 284108	XPNBCT0602 285503	XPNBCT0604 285504	XPNBBC0606 285522
800	XMN442408MVF 290348	XPBMB0608 284109	-	XPNBCT0804 135258	XPNBBC0806 135257

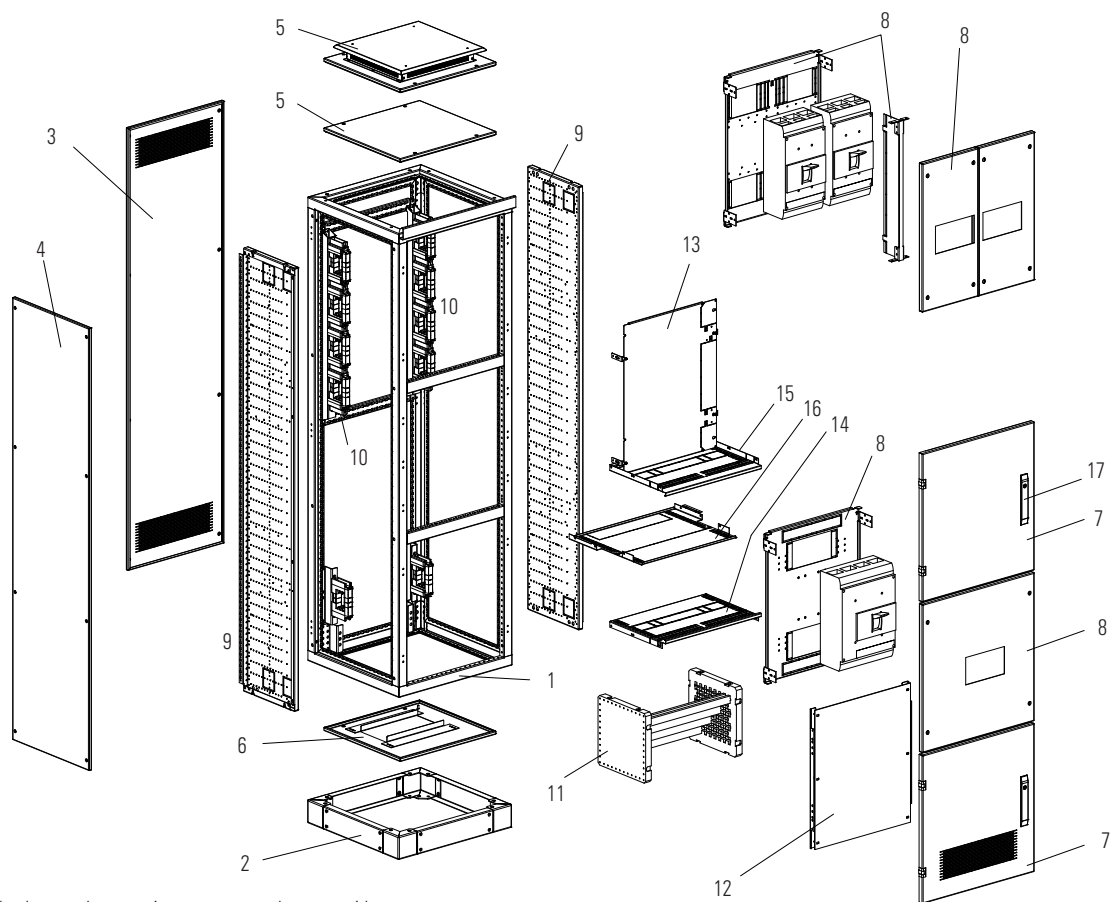
xEnergy Switchboards

Notes



XP Section NZM 3/4 in Form 4

Katalog 2-1 NZM4-4b



Abbreviations:

EVENMain busbars and connection area are on the same side
 OPPOMain busbars and connection area are opposite each other
 UK3P&N (for UK market)

- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Fitting kit (available for 1 or 2 devices per section)
- 9 Universal mounting plate
- 10 Main busbar support
- 11 Cable connection system
- 12 PVC cover
- 13 Partition main busbar area/switchgear a. (mounting plate)
- 14 Partition connection area/switchgear area
- 15 Partition switchgear area/switchgear area
- 16 Partition main busbar area/connection a.
- 17 Lock mechanism

Features

- widths of 425/600/800 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second main busbar it can be used as a coupling section
- 250-630 A (NZM3)
- 630-1600 A (NZM4)
- Form 4
- IP31
- suitable for drill-free cable connection, installation either at the top or bottom
- to be operated from outside
- also possible with 2 switching devices in one section
- suitable for switchgear with remote operation

Notes

Frame comes with a blue design strip.
 Doors include locking system for 3 mm two-way key bit.
 Where cover plates of several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
 We recommend NZM3/4-XKSA as a touch protection for the connection copper - see HPL.
 For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Incoming Supply NZM 3 Form 4, Rear-mounted Busbars (HSS)

Form 4



VT18010



VT13310



VT10109



wa_vt68713

	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Remote operation	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for busbar support Article No. per unit
Circuit breaker NZM 3										
NZM 3	100	630	600	425	3+4	F		XSFB0406 284232 122275 *	XSFH20 284245 122288 *	XBBB04 283859
					3+4	F	Remote operation	XSFB0406 284232 122275 *	XSFH20 284245 122288 *	XBBB04 283859
					3+4	W		XSFB0406 284232 122275 *	XSFH20 284245 122288 *	XBBB04 283859
					3+4	W	Remote operation	XSFB0406 284232 122275 *	XSFH20 284245 122288 *	XBBB04 283859
			600		3	F		XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860
					4	F		XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860
					3	F	Remote operation	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860
					3	W		XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860
					3	W	Remote operation	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860
			800		4	W		XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861
					4	W	Remote operation	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861

Note

* Finish in special RAL colour



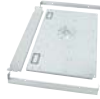
Busbar support	Busbar support for PEN	Universal mounting plate for PEN	Fitting kit mounting plate	Double fitting kit mounting plate	Front cover closed without cut-out up to IP55	Partition connection/main busbar at the center	Partition connection/switchgear at the bottom	Partition connection/switchgear at the top
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XBSP 283872	XSMIB20 284257	XMN3304 124411 124412 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNCMB04 284174	XPMMB0404 284163
see page xx	XBSP 283872	XSMIB20 284257	XMN3304 124411 124412 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNCMB04 284174	XPMMB0404 284163
see page xx	XBSP 283872	XSMIB20 284257	XMN3304-1 129009 129012 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNCMB04 284174	XPMMB0404 284163
see page xx	XBSP 283872	XSMIB20 284257	XMN3304-2 129010 129013 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNCMB04 284174	XPMMB0404 284163
see page xx	XBSP 283872	XSMIB20 284257	-	XMN330602 107982 122555 *	XMC060602 107987 122560 *	XPNBCB0602 289175	XPNCMB06 284175	XPMMB0604 284164
see page xx	XBSP 283872	XSMIB20 284257	-	XMN340602 107983 122556 *	XMC060602 107987 122560 *	XPNBCB0602 289175	XPNCMB064 284175	XPMMB0604 284164
see page xx	XBSP 283872	XSMIB20 284257	-	XMN330602-R 110277 122605 *	XMC060602 107987 122560 *	XPNBCB0602 289175	XPNCMB06 284175	XPMMB0604 284164
see page xx	XBSP 283872	XSMIB20 284257	-	XMN330602-1 110274 122602 *	XMC060602 107987 122560 *	XPNBCB0602 289175	XPNCMB06 284175	XPMMB0604 284164
see page xx	XBSP 283872	XSMIB20 284257	-	XMN330602-2 125995 125996 *	XMC060602 107987 122560 *	XPNBCB0602 289175	XPNCMB06 284175	XPMMB0604 284164
see page xx	XBSP 283872	XSMIB20 284257	-	XMN340802-1 110275 122603 *	XMC060802 107988 122561 *	XPNBCB0802 118735	XPNCMB08 116455	XPMMB0804 284165
see page xx	XBSP 283872	XSMIB20 284257	-	XMN340802-2 125997 125998 *	XMC060802 107988 122561 *	XPNBCB0802 118735	XPNCMB08 116455	XPMMB0804 284165

Note

* Finish in special RAL colour



VT23509



wa_vt62813



wa_vt70513



wa_vt65313



wa_vt63013



wa_vt63013



wa_vt65413



wa_vt65513



wa_vt25213

Mounting pl. partition switchgear/ main busbar	Mounting plate partition switchgear/main busbar swivel-mounted	Cover for connection area transparent	Door to switchgear up to IP55 closed	Door to switchgear area with 144x144 cut-out up to IP55	Door to switchgear area with 96x96 cut-out up to IP55	Door to switchgear a. ventilated up to IP31 right	Door to switchgear a. ventilated up to IP31 left	Rear panel closed up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *	XSWC2004 284355 122346 *
XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *	XSWC2004 284355 122346 *
XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *	XSWC2004 284355 122346 *
XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *	XSWC2004 284355 122346 *
XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *	XSWC2006 284356 122347 *
XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *	XSWC2006 284356 122347 *
XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *	XSWC2006 284356 122347 *
XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *	XSWC2006 284356 122347 *
XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *	XSDMC0608-1-144 112329 122614 *	XSDMC0608-1-96 112319 122609 *	XSDMRV0608 284216 122262 *	XSDMLV0608 284207 122253 *	XSWC2008 284357 122348 *
XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196 122242 *	XSDMC0608-1-144 112329 122614 *	XSDMC0608-1-96 112319 122609 *	XSDMRV0608 284216 122262 *	XSDMLV0608 284207 122253 *	XSWC2008 284357 122348 *

Note

* Finish in special RAL colour



Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate in sev.parts up to IP31 ¹⁾	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSWV2004 284360 122351 *	XAW2006 283857 122119 *	XSPTC0406 284302 122317 *	XSPTF0406 284317 122332 *	XSPBM0406 284287 122302 *	XAD0406 283485 122077 *	XAP010406 283823 122091 *	XAP020406 283837 122105 *	XAR04 283850	XNBW-R2 106740
XSWV2004 284360 122351 *	XAW2006 283857 122119 *	XSPTC0406 284302 122317 *	XSPTF0406 284317 122332 *	XSPBM0406 284287 122302 *	XAD0406 283485 122077 *	XAP010406 283823 122091 *	XAP020406 283837 122105 *	XAR04 283850	XNBW-R2 106740
XSWV2004 284360 122351 *	XAW2006 283857 122119 *	XSPTC0406 284302 122317 *	XSPTF0406 284317 122332 *	XSPBM0406 284287 122302 *	XAD0406 283485 122077 *	XAP010406 283823 122091 *	XAP020406 283837 122105 *	XAR04 283850	XNBW-R2 106740
XSWV2004 284360 122351 *	XAW2006 283857 122119 *	XSPTC0406 284302 122317 *	XSPTF0406 284317 122332 *	XSPBM0406 284287 122302 *	XAD0406 283485 122077 *	XAP010406 283823 122091 *	XAP020406 283837 122105 *	XAR04 283850	XNBW-R2 106740
XSWV2006 284361 122352 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *	XSPTF0606 284320 122335 *	XSPBM0606 284290 122305 *	XAD0606 283488 122080 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740
XSWV2006 284361 122352 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *	XSPTF0606 284320 122335 *	XSPBM0606 284290 122305 *	XAD0606 283488 122080 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740
XSWV2006 284361 122352 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *	XSPTF0606 284320 122335 *	XSPBM0606 284290 122305 *	XAD0606 283488 122080 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740
XSWV2006 284361 122352 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *	XSPTF0606 284320 122335 *	XSPBM0606 284290 122305 *	XAD0606 283488 122080 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740
XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740
XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.

Incoming Supply NZM 4 Form 4, Main Busbars rear-mounted (HSS)

Form 4



VT18010



VT13310



VT10109



wa_vt68713

	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Remote operation	Frame Article No. per unit	Vertical profiles Article No. per unit	Crossbar for busbar support Article No. per unit
Circuit breaker NZM 4, EVEN+OPPO										
NZM 4	100	800 - 1600	600	425	3	F		XSFB0406 284232	XSFH20 284245	XBBB04 283859
								122275 *	122288 *	
					3	F	Remote op.	XSFB0406 284232	XSFH20 284245	XBBB04 283859
								122275 *	122288 *	
					3	W		XSFB0406 284232	XSFH20 284245	XBBB04 283859
								122275 *	122288 *	
					3	W	Remote op.	XSFB0406 284232	XSFH20 284245	XBBB04 283859
								122275 *	122288 *	
					4	F		XSFB0406 284232	XSFH20 284245	XBBB04 283859
								122275 *	122288 *	
			600		3	F		XSFB0606 284235	XSFH20 284245	XBBB06 283860
								122278 *	122288 *	
					3	W		XSFB0606 284235	XSFH20 284245	XBBB06 283860
								122278 *	122288 *	
					3	W	Remote op.	XSFB0606 284235	XSFH20 284245	XBBB06 283860
								122278 *	122288 *	
					4	F		XSFB0606 284235	XSFH20 284245	XBBB06 283860
								122278 *	122288 *	
					4	W		XSFB0606 284235	XSFH20 284245	XBBB06 283860
								122278 *	122288 *	
					4	W	Remote op.	XSFB0606 284235	XSFH20 284245	XBBB06 283860
								122278 *	122288 *	

Note

* Finish in special RAL colour



Busbar support	Busbar support for PEN	Universal mounting plate for PEN	Fitting kit for mounting plate	Double fitting kit for mounting plate	Front cover closed without cut-out up to IP55	Partition connection/main busbar at the center	Partition between incom. copper and connection copper on main busbar	Partition connection/switchgear at the bottom
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XBSP 283872	XSMIB20 284257	XMN4304 284068 122202 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNBCB-E-04 121448	XPNMCB04 284174
see page xx	XBSP 283872	XSMIB20 284257	XMN4304 284068 122202 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNBCB-E-04 121448	XPNMCB04 284174
see page xx	XBSP 283872	XSMIB20 284257	XMN4304-1 284853 122373 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNBCB-E-04 121448	XPNMCB04 284174
see page xx	XBSP 283872	XSMIB20 284257	XMN4304-2 290205 122394 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNBCB-E-04 121448	XPNMCB04 284174
see page xx	XBSP 283872	XSMIB20 284257	XMN4404 284077 122207 *	-	XMC0604 102945 122417 *	XPNBCB0402 289174	XPNBCB-E-04 121448	XPNMCB04 284174
see page xx	XBSP 283872	XSMIB20 284257	XMN4306 292903 122402 *	XMN430602 107984 122557 *	XMC0606 102946 122418 *	XPNBCB0602 289175	XPNBCB-E-06 121449	XPNMCB06 284175
see page xx	XBSP 283872	XSMIB20 284257	XMN4306-1 292904 122403 *	-	XMC0606 102946 122418 *	XPNBCB0602 289175	XPNBCB-E-06 121449	XPNMCB06 284175
see page xx	XBSP 283872	XSMIB20 284257	XMN4306-2 292905 122404 *	-	XMC0606 102946 122418 *	XPNBCB06024 289175	XPNBCB-E-06 121449	XPNMCB06 284175
see page xx	XBSP 283872	XSMIB20 284257	XMN4406 292906 122405 *	-	XMC0606 102946 122418 *	XPNBCB0602 289175	XPNBCB-E-06 121449	XPNMCB06 284175
see page xx	XBSP 283872	XSMIB20 284257	XMN4406-1 284078 122208 *	-	XMC060602 107987 122560 *	XPNBCB0602 289175	XPNBCB-E-06 121449	XPNMCB06 284175
see page xx	XBSP 283872	XSMIB20 284257	XMN4406-2 290206 122395 *	-	XMC060602 107987 122560 *	XPNBCB0602 289175	XPNBCB-E-06 121449	XPNMCB06 284175

Note

* Finish in special RAL colour



wa_vt62413 VT23509 wa_vt62813 wa_vt70513 wa_vt6313 wa_vt63013 wa_vt63013 wa_vt65413 wa_vt65513

Partition switchgear/ switchgear at the top	Mounting plate partition switchgear/ main-busbar	Mounting plate partition switchgear/main busbar swivel-mounted	Cover for connection area transparent	Door to switchgear up to IP55 closed	Door to switch-gear area with 144x144 cut-out up to IP55	Door to switch-gear area with 96x96 cut-out up to IP55	Door to switch gear area up to IP31 right ventilated	Door to switch-gear area up to IP31 left ventilated
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPMMB0404 284163	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *
XPMMB0404 284163	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *
XPMMB0404 284163	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *
XPMMB0404 284163	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *
XPMMB0404 284163	XPBMB0604 284107	XPBMB0604-ROT 112312	XPC0604 284115	XSDMC0604 284194 122240 *	XSDMC0604-1-144 112327 122612 *	XSDMC0604-1-96 112317 122607 *	XSDMRV0604 284214 122260 *	XSDMLV0604 284205 122251 *
XPMMB0604 284164	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *
XPMMB0604 284164	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *
XPMMB0604 284164	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *
XPMMB0604 284164	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *
XPMMB0604 284164	XPBMB0606 284108	XPBMB0606-ROT 112313	XPC0606 284116	XSDMC0606 284195 122241 *	XSDMC0606-1-144 112328 122613 *	XSDMC0606-1-96 112318 122608 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *

Note

* Finish in special RAL colour



Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate in sev. parts up to IP31 ¹⁾	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSWC2004 284355	XSWV2004 284360	XAW2006 283857	XSPTC0406 284302	XSPTF0406 284317	XSPBM0406 284287	XAD0406 283485	XAP010406 283823	XAP020406 283837	XAR04 283850	XNBW-R2 106740
122346 *	122351 *	122119 *	122317 *	122332 *	122302 *	122077 *	122091 *	122105 *		
XSWC2004 284355	XSWV2004 284360	XAW2006 283857	XSPTC0406 284302	XSPTF0406 284317	XSPBM0406 284287	XAD0406 283485	XAP010406 283823	XAP020406 283837	XAR04 283850	XNBW-R2 106740
122346 *	122351 *	122119 *	122317 *	122332 *	122302 *	122077 *	122091 *	122105 *		
XSWC2004 284355	XSWV2004 284360	XAW2006 283857	XSPTC0406 284302	XSPTF0406 284317	XSPBM0406 284287	XAD0406 283485	XAP010406 283823	XAP020406 283837	XAR04 283850	XNBW-R2 106740
122346 *	122351 *	122119 *	122317 *	122332 *	122302 *	122077 *	122091 *	122105 *		
XSWC2004 284355	XSWV2004 284360	XAW2006 283857	XSPTC0406 284302	XSPTF0406 284317	XSPBM0406 284287	XAD0406 283485	XAP010406 283823	XAP020406 283837	XAR04 283850	XNBW-R2 106740
122346 *	122351 *	122119 *	122317 *	122332 *	122302 *	122077 *	122091 *	122105 *		
XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740
122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *	122094 *	122108 *		
XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740
122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *	122094 *	122108 *		
XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740
122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *	122094 *	122108 *		
XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740
122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *	122094 *	122108 *		
XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740
122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *	122094 *	122108 *		

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.

Incoming Supply NZM 4 Form 4, Main Busbars rear-mounted (HSS)

Form 4



VT18010



VT13310



VT10109



wa_vt68713

	I_{cc} up to (400 V AC) kA	I_e up to A	Section depth mm	Section width mm	Poles	Installation type F=Fixed W=Drawer unit	Remote operation	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for busbar support Article No. per unit
Circuit breaker NZM 4, EVEN+OPPO										
NZM 4	100	800 - 1600	600	800	3	F		XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861
					4	F		XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861
					3	W		XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861
					3	W	Remote op.	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861

Note

* Finish in special RAL colour



Busbar support	Busbar support for PEN	Universal mounting plate	Fitting kit mounting plate	Double fitting kit - mounting plate	Front cover closed without cut-out up to IP55	Partition connection/main busbar at the center	Partition betw. incoming copper and connection copper on main busbar	Partition connection/switchgear at the bottom
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XBSP 283872	XSMIB20 284257	-	XMN430802 107985 122558 *	XMC060802 107988 122561 *	XPNBCB0802 118735	XPNBCB-E-08 121450	XPNMCB08 116455
see page xx	XBSP 283872	XSMIB20 284257	-	XMN440802 107986 122559 *	XMC060802 107988 122561 *	XPNBCB0802 118735	XPNBCB-E-08 121450	XPNMCB08 116455
see page xx	XBSP 283872	XSMIB20 284257	-	XMN430802-1 110276 122604 *	XMC060802 107988 122561 *	XPNBCB0802 118735	XPNBCB-E-08 121450	XPNMCB08 116455
see page xx	XBSP 283872	XSMIB20 284257	-	XMN430802-2 125999 126000 *	XMC060802 107988 122561 *	XPNBCB0802 118735	XPNBCB-E-08 121450	XPNMCB08 116455



wa_vt62413 VT23509 wa_vt62813 wa_vt70513 wa_vt65313 wa_vt63013 wa_vt63013 wa_vt65413 wa_vt65513

Partition switchgear/ switchgear at the top	Mounting plate partition switchgear/ main busbar	Mounting plate partition switchgear/ main busbar swivel-mounted	Cover for connection area transparent	Door to switchgear area up to IP55 closed	Door to switchgear area with cut-out 144x144 up to IP55	Door to switchgear area with cut-out 96x96 up to IP55	Door to switchgear area ventilated up to IP31 right	Door to switchgear area ventilated up to IP31 left
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPMMB0804 284165	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196	XSDMC0608-1-144 112329	XSDMC0608-1-96 112319	XSDMRV0608 284216	XSDMLV0608 284207
				122242 *	122614 *	122609 *	122262 *	122253 *
XPMMB0804 284165	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196	XSDMC0608-1-144 112329	XSDMC0608-1-96 112319	XSDMRV0608 284216	XSDMLV0608 284207
				122242 *	122614 *	122609 *	122262 *	122253 *
XPMMB0804 284165	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196	XSDMC0608-1-144 112329	XSDMC0608-1-96 112319	XSDMRV0608 284216	XSDMLV0608 284207
				122242 *	122614 *	122609 *	122262 *	122253 *
XPMMB0804 284165	XPBMB0608 284109	XPBMB0608-ROT 112314	XPC0608 284117	XSDMC0608 284196	XSDMC0608-1-144 112329	XSDMC0608-1-96 112319	XSDMRV0608 284216	XSDMLV0608 284207
				122242 *	122614 *	122609 *	122262 *	122253 *



Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate in several parts up to IP31 ¹⁾	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief	Fixing bracket for cable strain relief
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740
XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740
XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740
XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.

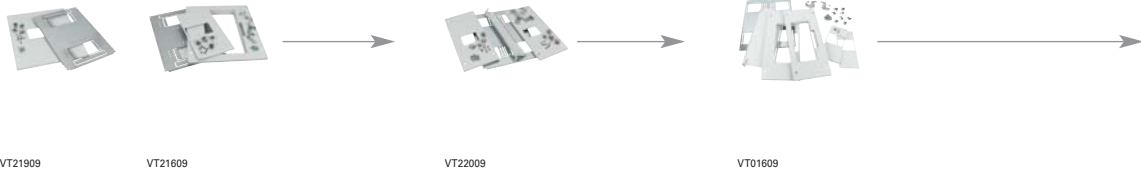
NZM3/4 Form 2/4 Components



xEnergy Switchboards

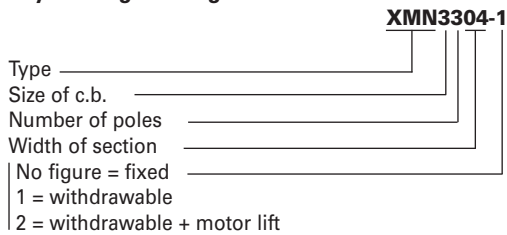
Fitting kits NZM 3 Form 4

Including base plate, front plate, fastening bracket, cross ridges and fastening material.

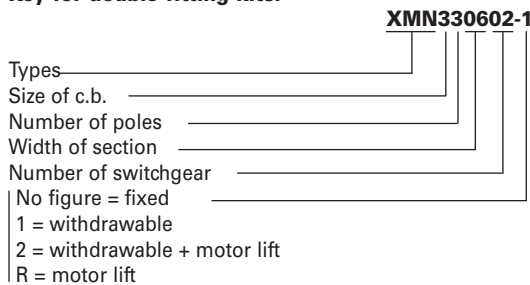


Section width mm	Fitting kit for NZM 3 in incoming/outgoing sect.	Fitting kit for NZM 3 in incoming/outgoing sect. withdrawable	Fitting kit for NZM 3 in incoming/outgoing s. withdrawable with motor lift	Fitting kit for 2 NZM 3 3 poles in incoming/outgoing sect	Fitting kit for 2 NZM 3 4 poles in incoming/outgoing sect	Fitting kit for 2 NZM 3 3 poles in incoming/outgoing sect withdrawable	Fitting kit for 2 NZM 3 3 poles in incoming/outgoing sect with motor lift	Fitting kit for 2 NZM 3 4 poles in incoming/outgoing sect. withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
NZM 3 Form 4								
425	XMN3304 124411 124412 *	XMN3304-1 129009 129012 *	XMN3304-2 129010 129013 *	-	-	-	-	-
600	-	-	-	XMN330602 107982 122555 *	XMN340602 107983 122556 *	XMN330602-1 110274 122602 *	XMN330602-R 110277 122605 *	-
800	-	-	-	-	-	-	-	XMN340802-1 110275 122603 *

Key for single fitting kits:



Key for double fitting kits:



Note

* Finish in special RAL colour

xEnergy Switchboards

Fitting kits NZM 3 Form 4 (cont.)

Including base plate, front plate, fastening bracket, cross ridges and fastening material.



VT01609

Section width mm	Fitting kit for 2 NZM 3 3 poles in incoming/ outgoing sect. withdrawable with motor lift Article No. per unit	Fitting kit for 2 NZM 3 4 poles in incoming/ outgoing sect. withdrawable with motor lift Article No. per unit	
	NZM 3 Form 4		
425	-	-	
600	XMN330602-2 125995 125996 *	-	
800	-	XMN340802-2 125997 125998 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Mounting plates, fitting kits NZM 4 Form 2/4

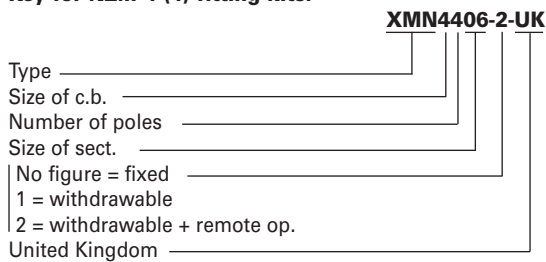
Including base plate, front plate, fastening bracket, cross ridges and fastening material.



VT21909

Section width mm	Fitting kit for NZM 4 3 poles in incoming/outgoing s.	Fitting kit for NZM 4 4 poles in incoming/outgoing s.	Fitting kit for NZM 4 4 poles in incoming/outgoing s. UK	Fitting kit for NZM 4 4 poles in incoming/outgoing s. for rotary drive UK	Fitting kit for NZM 4 4 poles in incoming/outgoing sect. withdrawable UK	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
	NZM 4 Form 4					
425	XMN4304 284068 122202 *	XMN4404 284077 122207 *	-	-	-	
600	XMN4306 292903 122402 *	XMN4406 292906 122405 *	XMN4406-UK 110251 122593 *	XMN4406-RH-UK 121890 122638 *	XMN4406-1-UK 110250 122592 *	
800	-	-	-	-	-	

Key for NZM 4 (4) fitting kits:



Note

* Finish in special RAL colour

xEnergy Switchboards

Fitting kits for NZM 4 Form 4 (cont.)

Including base plate, front plate, fastening bracket, cross ridges and fastening material.



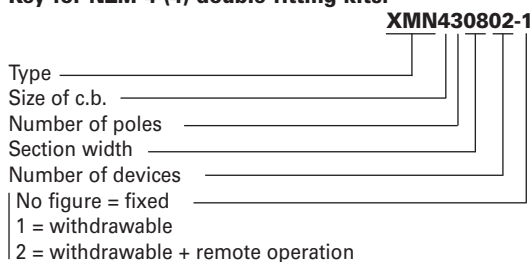
VT21609



VT22009

Section width mm	Fitting kit for NZM 4 3 poles in incoming/outgoing s. withdrawable	Fitting kit for NZM 4 4 poles in incoming/outgoing s. withdrawable	Fitting kit for NZM 4 3 poles in incoming/outgoing s. withdrawable remote oper.	Fitting kit for NZM 4 4 poles in incoming/outgoing s. withdrawable remote oper.	Fitting kit for 2 NZM 4 3 poles in incoming/outgoing s.	Fitting kit for 2 NZM 4 3 poles in incoming/outgoing s. withdrawable remote oper.	Fitting kit for 2 NZM 4 4 poles in incoming/outgoing s.	Fitting kit for 2 NZM 4 3 poles in incoming/outgoing s. withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
NZM 4 Form 4								
425	XMN4304-1 284853 122373 *	-	XMN4304-2 290205 122394 *	-	-	-	-	-
600	XMN4306-1 292904 122403 *	XMN4406-1 284078 122208 *	XMN4306-2 292905 122404 *	XMN4406-2 290206 122395 *	XMN430602 107984 122557 *	-	-	-
800	-	-	-	-	XMN430802 107985 122558 *	XMN430802-2 125999 126000 *	XMN440802 107986 122559 *	XMN430802-1 110276 122604 *

Key for NZM 4 (4) double fitting kits:



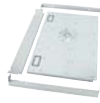
Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories

Mounting plates



wa_vt62813



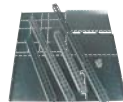
VT23509

Section width mm	Swivel-mounted separation panel switchgear a./ busbar area suitable for NZM3+4 IZM13 IZM58 Article No. per unit	Partition switchgear a./ switchgear a./ (mounting plate) Form 2/4 Article No. per unit
425	XPBMB0604-ROT 112312	XPBMB0604 284107
600	XPBMB0606-ROT 112313	XPBMB0606 284108
800	XPBMB0608-ROT 112314	XPBMB0608 284109

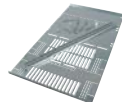
Internal separation



wa_vt62413



VT00911



wa_vt72013



wa_vt70913



wa_vt70513

Section width mm	Partition connection a./ switchgear a. (only NZM) Form 4 Article No. per unit	Partition switchgear a./ switchgear a. Form 4 Article No. per unit	Separation p. between connection 2x NZM3 or NZM4 Article No. per unit	Partition between incoming supply copper and connection copper on main busbar with NZM Form 4 Article No. per unit	Partition busbar area/ connection a. (only NZM) section depth 600 mm Form 4 Article No. per unit	Partition busbar area/ connection a. (only NZM) section depth 800 mm Form 4 Article No. per unit	Partition connection area Form 4 Article No. per unit
425	XPNCB04 284174	XPMMB0404 284163	XPNCB 126009	XPNBCB-E-04 121448	XPNBCB0402 289174	XPNBCB0404 289176	XPC0604 284115
600	XPNCB06 284175	XPMMB0604 284164	-	XPNBCB-E-06 121449	XPNBCB0602 289175	XPNBCB0604 289177	XPC0606 284116
800	XPNCB08 116455	XPMMB0804 284165	-	XPNBCB-E-08 121450	XPNBCB0802 118735	XPNBCB0804 118736	XPC0608 284117

xEnergy Switchboards

Accessories

Snap-on covers



Section width mm	Snap-on cover without cut-out	2xsnap-on cover without cut-out	Bar for snap-on cover
	Article No. per unit	Article No. per unit	Article No. per unit
425	XMC0604 102945 122417 *	-	XSFD0604 113991 122618 *
600	XMC0606 102946 122418 *	XMC060602 107987 122560 *	XSFD0606 113992 122619 *
800	XMC0608 102947 122419 *	XMC060802 107988 122561 *	XSFD0608 113993 122620 *
1000	XMC0610 102948 122420 *	-	XSFD0610 113994 122621 *
1100	XMC0611 132993 133041 *	-	-
1200	XMC0612 113990 122617 *	-	XSFD0612 113995 122622 *
1350	XMC06135 132994 133042 *	-	-

Note

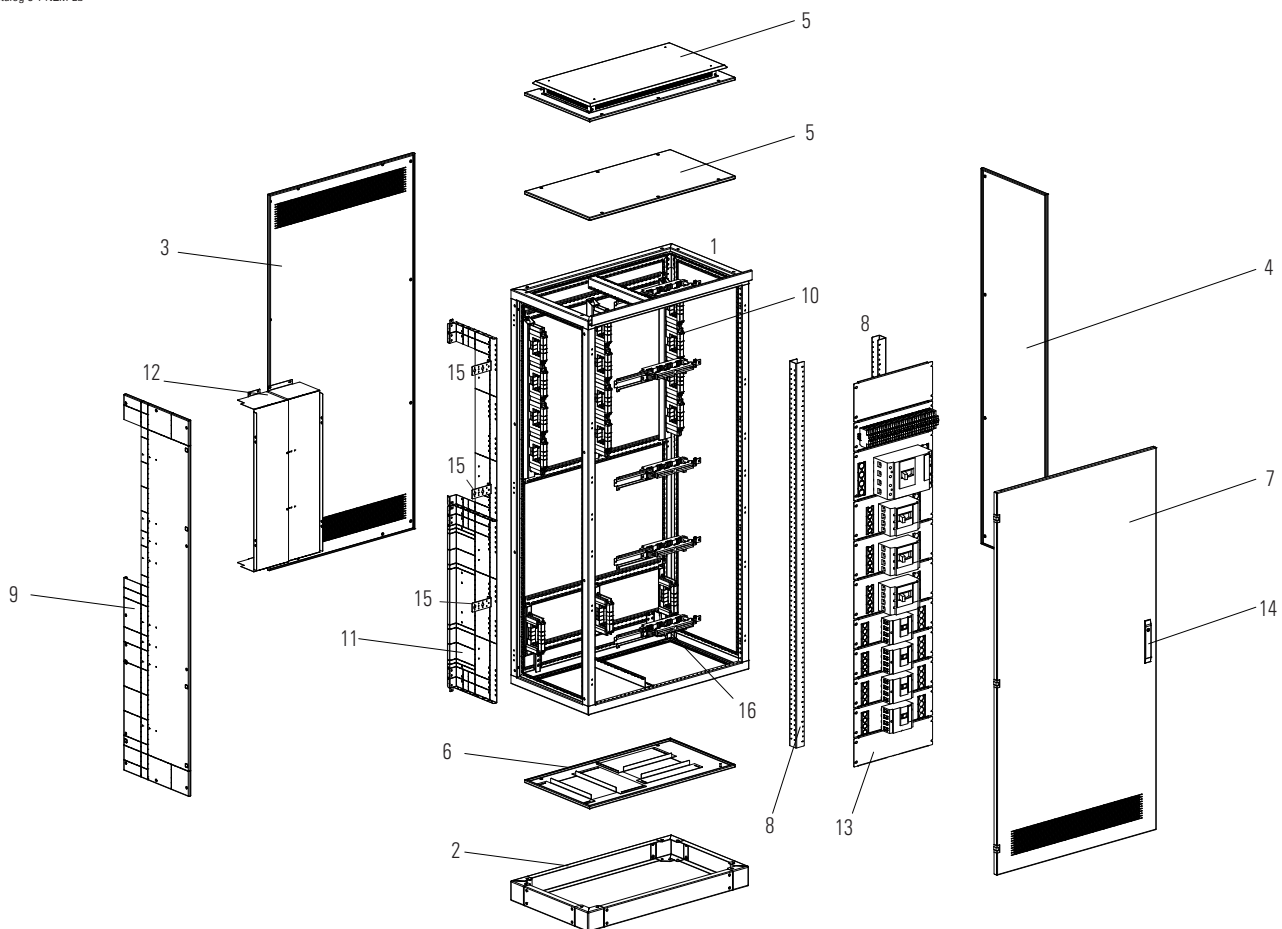
* Finish in special RAL colour

XF = Outgoing sections - fixed design

Outgoing section in Form 2	Page 107
Outgoing section in Form 4	Page 121
Outgoing section - Box Solution, Motor Control Centers in fixed design	Page 145
Outgoing sections for fuse strips	Page 161
Outgoing sections for fuse strips with dropper bar across two sections	Page 169

Outgoing Section in Form 2

Katalog 3-1 NZM-2b



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Fitting kit for outgoing with circuit breaker
- 9 Separation panel between section/section
- 10 Main busbar support
- 11 Partition connection area/dropper bar a.
- 12 Partition main busbar area/cable connection area
- 13 Mounting plates
- 14 Lock mechanism
- 15 Angle bracket for N and PEN dropper bar
- 16 Support for dropper bar

Features

- Widths of 800/1000/1200 mm
- Module widths of 425 and 600 mm
- 3 or 4 poles
- Form 2
- IP31/IP55
- Circuit breaker suitable for plug base
- NZM3 with plug base ... in sections
800 mm deep
- Suitable for switchgear with remote operation
- Separate doors for switchgear area and connection area
- Transparent doors are available (glass d.)
- Dropper bars from 800 to 1600 A
- Separate setup in 2 separate sections of switchgear area and cable connection area is possible
e.g. 600 mm / 600 mm

Notes

Frame comes with a blue design strip.
Doors include locking system for 3mm two-way key bit. Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
The maximum height available for the installation of mounting plates is 1900 mm.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durostone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Outgoing Section in Form 2, Main Busbars rear-mounted (HSS)

Form 2



VT18410



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



VT19909



wa_vt68213

Section depth mm	Section width mm	Module width mm	Connection area width mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for busbar support Article No. per unit	Support for main busbar Article No. per unit	Busbar support for PEN Article No. per unit	Fitting kit for outgoing sections with circuit breaker Article No. per unit	Mounting plates Article No. per unit
600	600	425	200	XSFB0606 284235	XSFH20 284245	XBBB06 283860	see page xx	XBSP 283872	XSMFIB0606 284253	see page xx
				122278 *	122288 *					
	800	425	400	XSFB0806 284238	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XSMFIB0606 284253	see page xx
				122281 *	122288 *					
800	600	200	200	XSFB0806 284238	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XSMFIB0606 284253	see page xx
				122281 *	122288 *					
1000	600	400	400	XSFB1006 284241	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	XSMFIB0606 284253	see page xx
				122284 *	122288 *					
800	600	425	200	XSFB0608 284236	XSFH20 284245	XBBB06 283860	see page xx	XBSP 283872	XSMFIB0608 284254	see page xx
				122279 *	122288 *					
	800	425	400	XSFB0808 284239	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XSMFIB0608 284254	see page xx
				122282 *	122288 *					
800	600	200	200	XSFB0808 284239	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XSMFIB0608 284254	see page xx
				122282 *	122288 *					
1000	600	400	400	XSFB1008 284242	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	XSMFIB0608 284254	see page xx
				122285 *	122288 *					

Note

* Finish in special RAL colour



Separation p. partition connection/ dropper bar	Partition connection area/ main bus bar	Support for dropper busbar	Extension bracket	Angle bracket for PE or PEN in connection area	Angle bracket for N +PEN in connect. area	Door to switchgear a. up to IP55 closed	Door to switchgear a. up to IP31 ventilated right	Door to switchgear a up to IP31 ventilated left	Door to switchgear area up to IP55 transparent
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPFC2006 284132	XPFCB02 284745	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894	XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *	XSDMD2006 284204 122250 *
XPFC2006 284132	XPFCB04 284119	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *
XPFC2006 284132	XPFCB02 284745	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *
XPFC2006 284132	XPFCB04 284119	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894	XSDMC2010 284201 122247 *	XSDMRV2010 284221 122267 *	XSDMLV2010 284212 122258 *	-
XPFC2008 284133	XPFCB02 284745	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894	XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *	XSDMD2006 284204 122250 *
XPFC2008 284133	XPFCB04 284119	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *
XPFC2008 284133	XPFCB02 284745	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *
XPFC2008 284133	XPFCB04 284119	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894	XSDMC2010 284201 122247 *	XSDMRV2010 284221 122267 *	XSDMLV2010 284212 122258 *	-

Note

* Finish in special RAL colour



Rear panel up to IP55 closed	Rear panel up to IP31 ventilated	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate in several p. up to IP31 ¹⁾	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840
122347 *	122352 *	122119 *	122320 *	122335 *	122305 *	122080 *	122094 *	122108 *
XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843
122348 *	122353 *	122119 *	122323 *	122338 *	122308 *	122083 *	122097 *	122111 *
XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323	XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843
122348 *	122353 *	122119 *	122323 *	122338 *	122308 *	122083 *	122097 *	122111 *
XSWC2010 284358	XSWV2010 284363	XAW2006 283857	XSPTC1006 284311	XSPTF1006 284326	XSPBM1006 104529	XAD1006 283814	XAP011006 283832	XAP021006 283846
122349 *	122354 *	122119 *	122326 *	122341 *	122421 *	122086 *	122100 *	122114 *
XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321	XSPBM0608 284291	XAD0608 283489	XAP010608 283827	XAP020608 283841
122347 *	122352 *	122120 *	122321 *	122336 *	122306 *	122081 *	122095 *	122109 *
XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324	XSPBM0808 284294	XAD0808 283812	XAP010808 283830	XAP020808 283844
122348 *	122353 *	122120 *	122324 *	122339 *	122309 *	122084 *	122098 *	122112 *
XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324	XSPBM0808 284294	XAD0808 283812	XAP010808 283830	XAP020808 283844
122348 *	122353 *	122120 *	122324 *	122339 *	122309 *	122084 *	122098 *	122112 *
XSWC2010 284358	XSWV2010 284363	XAW2008 283858	XSPTC1008 284312	XSPTF1008 284327	XSPBM1008 104530	XAD1008 283815	XAP011008 283833	XAP021008 283847
122349 *	122354 *	122120 *	122327 *	122342 *	122422 *	122087 *	122101 *	122115 *

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.



wa_vt15013



VT25009



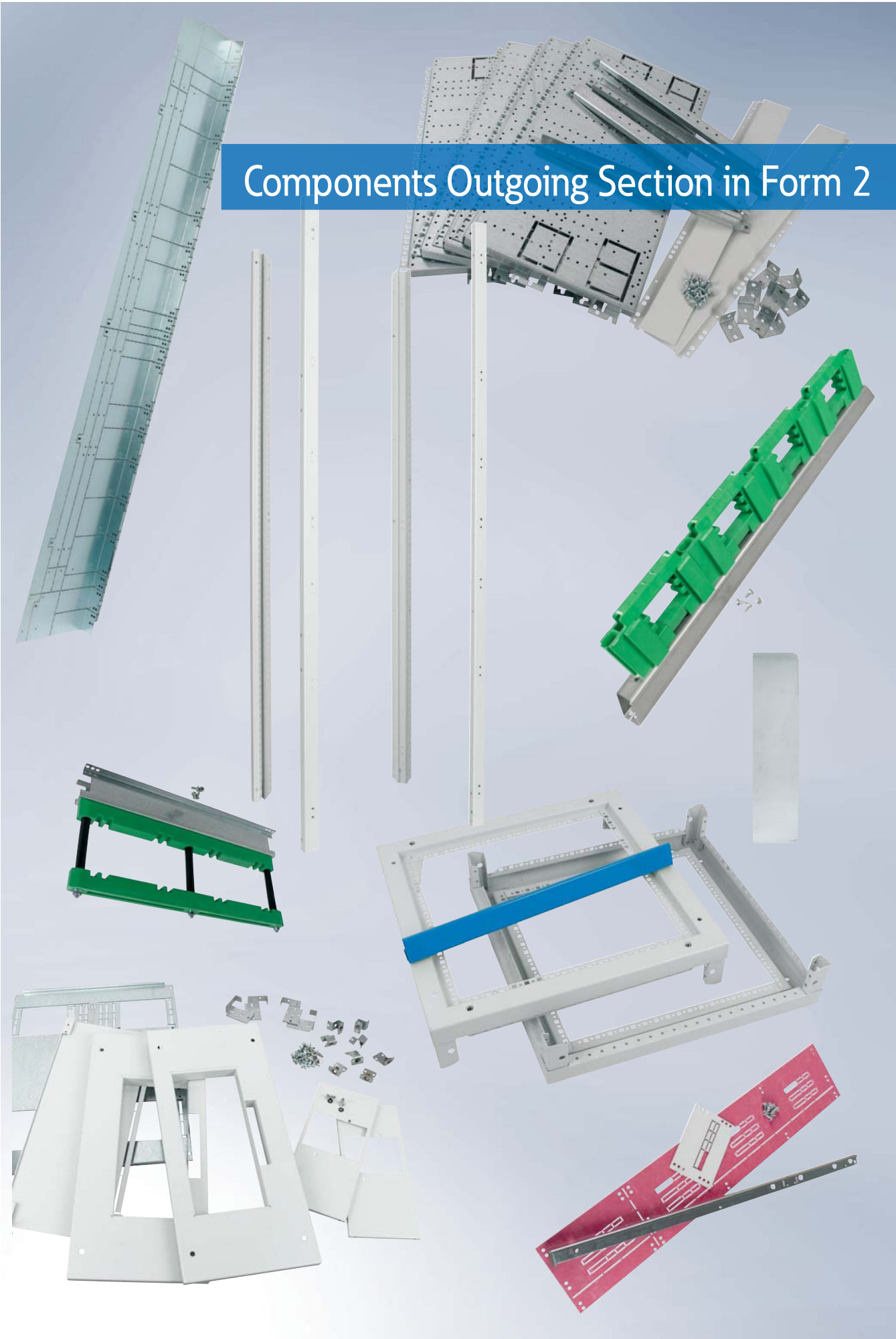
VT07906

Cable strain relief rail	Universal profile for various mounting units	Separation p. section/ section	
Article No. per unit	Article No. per unit	Article No. per unit	
XAR04 283850	XSMPB20 288997	XPSS2006 284178	
XAR04 283850	XSMPB20 288997	XPSS2006 284178	
XAR04 283850	XSMPB20 288997	XPSS2006 284178	
XAR04 283850	XSMPB20 288997	XPSS2006 284178	
XAR04 283850	XSMPB20 288997	XPSS2008 284179	
XAR04 283850	XSMPB20 288997	XPSS2008 284179	
XAR04 283850	XSMPB20 288997	XPSS2008 284179	
XAR04 283850	XSMPB20 288997	XPSS2008 284179	

Note

* Finish in special RAL colour

Components Outgoing Section in Form 2



xEnergy Switchboards

Accessories

Fitting kits for outgoing sections Form 2



VT19909

Section depth mm	Fitting kits for LS outgoing sections Form 2	Article No. per unit
600	XSMFIB0606	284253
800	XSMFIB0608	284254

Accessories for outgoing sections Form 2: Partitions for internal separation



VT25109

Section depth mm	Form 2/4 Partition connection area/dropper bar area	Article No. per unit unit = 1 set
600	XPFC2006	284132
800	XPFC2008	284133

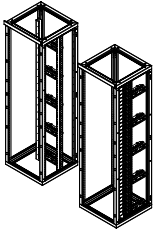


wa_vt71913

Section width mm	Form 2/4 Connection area/dropper bar area in the widths of 200/400/600	Article No. per unit unit = 1 set
800	XPFCB02	284745
1000	XPFCB04	284119
1200	XPFCB06	284746

xEnergy Switchboards

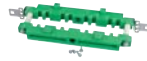
Dropper Bars up to 1600 A for Outgoing Sections, Fitting Kits



00123137_0

Features:

- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT, TT
- I_{CW} (1 s) up to 50 kA¹⁾



wa_vt58813



wa_vt58913

Angle bracket for N and PEN in the cable connection area



wa_vt69913



wa_vt70013

I_e	Busbar cross-sections		Type of busbar support		Type of support for conductor in connection area ¹⁾	
	L1, L2, L3, full N mm ²	PE, PEN mm ²	3 poles L1, L2, L3, or 4 poles L1, L2, L3, N	End support at the bottom	PE or PEN	N+PEN
A			Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Dropper bars on the side, center-to-center phase distance 60 mm						
800	2 x 20 x 10	1 x 20 x 10	XDSF08 283888	XDSF08E 283889	XDSFP 283895	XDSFN 283894
1250	2 x 40 x 10	1 x 40 x 10	XDSF12 283890	XDSF12E 283891	XDSFP 283895	XDSFN 283894
1600	2 x 60 x 10	1 x 60 x 10	XDSF16 283892	XDSF16E 283893	XDSFP 283895	XDSFN 283894



wa_vt59013



VT00412

Module width	Type Extension bracket for busbar support XDSF... for rear-mounted dropper bars	Type Extension bracket for busbar support (strong design for lowest position)
mm	Article No. per unit	
425	not required	-
600	XDB06 283885	XADB06E 166745

Note

¹⁾ Also suitable for mounting cable ducts, auxiliary busbars etc.

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for FAZ



Width mm	UK	min. H = 150 mm 1 row	min. H = 200 mm 1 row	min. H = 300 mm 2 rows	min. H = 400 mm 2 rows	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMMC0604M 283980	XMMC0804M 283984	XMMC1204M 283988	XMMC1604M 283992	
600	XMPL10606M-UK 110254	XMMC0606M 283982	XMMC0806M 283986	XMMC1206M 283990	XMMC1606M 283994	
800	-	XMMC0608M 106736	XMMC0808M 106737	-	-	
1000	-	XMMC0610M 106738	XMMC0810M 106739	-	-	

Accessories for Outgoing Sections: Mounting Plates - Empty



Width mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XME0204M 283923	XME0404M 283929	XME0604M 284727	XME0804M 283941	XME1004M 144585	XME1204M 285684	XME1404M-1 110333	XME1604M 283949
600	XME0206M 283925	XME0406M 283933	XME0606M 284728	XME0806M 283945	XME1006M 144586	XME1206M 285686	XME1406M-1 110339	XME1606M 283951

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for PKZ



wa_vt68313

wa_vt68113

Width mm	Horizontal 3 poles H = 50 mm	Horizontal 3 poles H = 100 mm	
	Article No. per unit	Article No. per unit	
425	XMP030204M 284088	XMP430404M 284096	
600	XMP030206M 284090	XMP430406M 284098	

Accessories for Outgoing Sections: Mounting Plates for NZM1



wa_vt68013

wa_vt68113

Width mm	UK 1xNZM1 horiz. 4 poles H = 150 mm fixed	1xNZM1 horizontal 3 poles H = 100 mm fixed	1xNZM1 horizontal 4 poles H = 150 mm fixed	1xNZM1 horizontal 3 poles H = 150 mm plug-in mod. technology	2xNZM1 vertical 3 poles H = 300 mm fixed	3xNZM1 vertical 3 poles H = 300 mm fixed	2xNZM1 vertical 4 poles H = 300 mm fixed	3xNZM1 vertical 4 poles H = 300 mm fixed	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMN130404M 283996	XMN140604M 284004	XMN130604MP 121798	XMN131204MV 284000	-	XMN141204MV 284008	-	
600	XMN140606M-UK 110255	XMN130406M 283998	XMN140606M 284006	XMN130606MP 121796	-	XMN131206MV 284002	-	XMN141206MV 284010	

xEnergy Switchboards

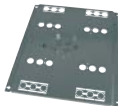
Accessories for Outgoing Sections: Mounting Plates for NZM2



wa_vt54913

Width mm	UK 1xNZM2 horizontal 4 poles H = 200 mm fixed	1xNZM2 horizontal 3 poles H = 150 mm fixed	1xNZM2 horizontal 3 poles H = 150 mm plug-in module technology	1xNZM2 horizontal 3 poles H = 150 mm with motor lift (sticking 15mm out of front panel)	1xNZM2 horizontal 4 poles H = 200 mm fixed	1xNZM2 horizontal 4 poles H = 200 mm plug-in module technology	1xNZM2 horizontal 4 poles H = 200 mm cover for RCD module fixed	2xNZM2 vertical 3 poles H = 400 mm fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	XMN230604M 284012	-	-	XMN240804M 284025	-	-	XMN231604MV 284016
600	XMN240606M-UK 110256	XMN230606M 284014	XMN230606MP 284724	XMN230606M 284014	XMN240806M 284027	XMN240806MP 284726	XMN240806MF 134485	-

Accessories for Outgoing Sections: Mounting Plates for NZM2 (several devices on one plate)



wa_vt73113

Width mm	3xNZM2 vertical 3 poles H = 400 mm fixed	2xNZM2 vertical 3 poles H = 600 mm plug-in module technology	3xNZM2 vertical 3 poles H = 600 mm plug-in module technology	2xNZM2 vertical 4 poles H = 400 mm fixed	2xNZM2 vertical 4 poles H = 600 mm plug-in module technology	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMN232404MV 284020	-	XMN241604MV 284029	XMN242404MV 284033	
600	XMN231606MV 284018	-	XMN232406MV 284022	XMN241606MV 284031	XMN242406MV 284035	

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for NZM3



wa_v172913

Width mm	UK 1xNZM3 horizontal 4 poles H = 250 mm fixed	1xNZM3 horizontal 3 poles H = 200 mm fixed	1xNZM3 horizontal 3 poles H = 250 mm fixed	1xNZM3 horizontal 4 poles H = 250 mm fixed	1xNZM3 horizontal 4 poles H = 300 mm fixed	1xNZM3 vertical 3 poles H = 600 mm fixed	2xNZM3 vertical 3 poles H = 600 mm fixed	1xNZM3 vertical 3 poles H = 600 mm withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	-	-	-	-	XMN332404MV 284046	-	XMN332404MV 284046
600	XMN340606M-UK 110257	XMN330806M 284038	XMN331006M 284041	XMN341006M 284054	XMN341206M 284057	-	XMN332406MV 284051	XMN332406MV 284051

Accessories for Outgoing Sections: Mounting Plates for NZM3 (cont.)

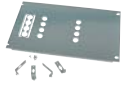


wa_v172913

Width mm	1xNZM3 vertical 4 poles H = 600 mm fixed	1xNZM3 vertical 4 poles H = 600 mm withdrawable	1xNZM3 horizontal 3 poles H = 200 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed	1xNZM3 horizontal 4 poles H = 250 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XMN342404MV 284062	XMN342404MV 284062	-	-
600	XMN342406MV 284067	XMN342406MV 284067	XMN330806M 284038	XMN341006M 284054

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for Box Solution



VT00909

Width mm	NZM1 3+4 poles H = 200 mm horizontal	NZM2 3 poles H = 200 mm horizontal	NZM2 4 poles H = 300 mm fixed/withdraw. horizontal	NZM3 3+4 poles H = 600 mm fixed vertical	NZM3 3+4 poles H = 600 mm fixed horizontal	NZM3 3+4 poles H = 300 mm fixed horizontal	NZM3 3+4 poles H = 500 mm withdrawable horizontal
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XMN130804M-BS 125973	XMN230804M-BS 125974	XMN241204M-BS 125975	XMN342404M-BS 125976	-	-	-
600	XMN130806M-BS 125977	XMN230806M-BS 125978	XMN241206M-BS 125979	-	XMN342406M-BS 125982	XMN341206M-F-BS 125980	XMN342006M-W-BS 125981

Accessories for Outgoing Sections: Mounting Plates for GS (disconnecter)



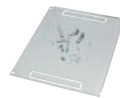
wa_vt68813



wa_vt70613



wa_vt70413



wa_vt70313

Width mm	For 3 units of GS(TA) 00 or 1 GSTA3 H = 300 mm	For 2 units of GS(TA) 1 H = 400 mm	For 1 unit of GS(TA) 2 H = 400 mm	For GS(TA) 3 H = 600 mm	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
600	XMG031206MV 283952	XMG131606MV 283953	XMG231606MV 283954	XMG332406M 114834	

xEnergy Switchboards

Accessories for 5000A application with a section depth of 1000mm

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

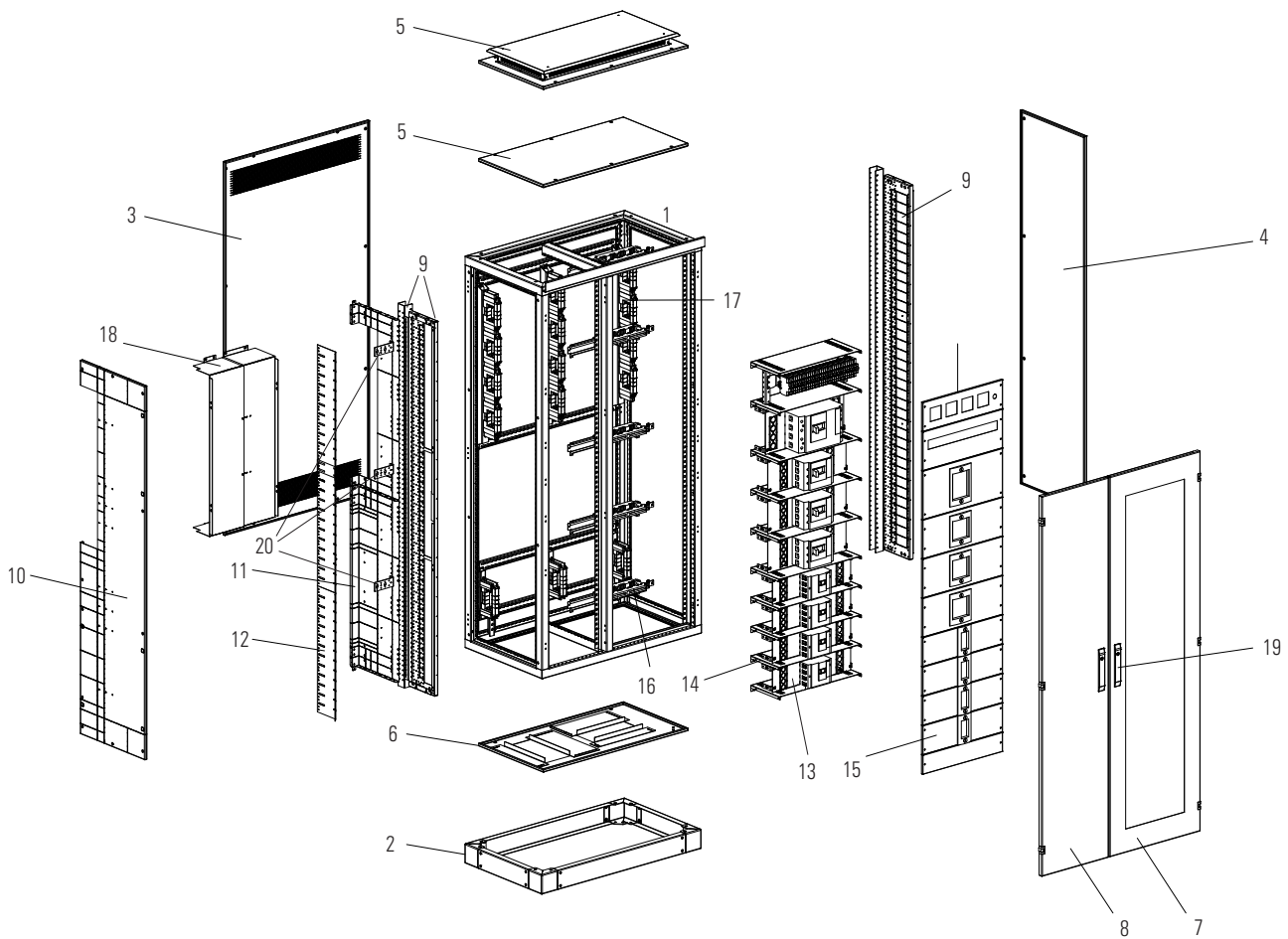


VT01611

Section width mm	Switchgear area width mm	Cable connect. area width mm	NZM outgoing sections Form 2/4	Article No. per unit unit = 1 set	For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.
600	425	172	XPFBCB172	158606	
800	425	372	XPFBCB372	158607	
	600	197	XPFBCB197	158608	
1000	600	397	XPFBCB397	158609	
1200	600	597	XPFBCB597	158610	

Outgoing Section in Form 4

Katalog 3-1 NZM 4



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door to switchgear area
- 8 Door to connection area
- 9 Fitting kit for outgoing with circuit breaker
- 10 Separation panel section/section
- 11 Separation panel dropper bar area/connection area
- 12 Closing strip
- 13 Mounting plates
- 14 Separation switchgear area/switchgear a.
- 15 Front plates
- 16 Support for dropper bar
- 17 Support for main busbar
- 18 Partition main busbar a./connection area
- 19 Lock mechanism
- 20 Angle bracket for N and PEN dropper bar

Features

- Widths of 800/1000/1200 mm
- Module widths of 425 and 600 mm
- 3 or 4 poles
- Form 4
- IP31/IP55
- Circuit breaker can be used with plug base
- Suitable for switchgear with remote operation
- Separate door to switchgear area and connection area
- Transparent doors are possible (glass)
- Dropper bar from 800 to 1600 A
- Separate setup in 2 separate sections of switchgear area and cable connection area is possible, e.g. 600 mm / 600 mm

Notes

Frame comes with a blue design strip.
Doors include locking system for 3mm two-way key bit. Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
In order to allow the air to circulate in IP31, you need to install a ventilated front panel, 100 mm high, at the very bottom.
The maximum height available for the installation of mounting plates is 1800 mm in IP 31 and 1900 mm in IP51.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durostone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Outgoing Section/Fixed installation in Form 4, Main Busbars rear-mounted (HSS), Section Depth 600 mm

Form 4



VT18610



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



VT19809

Section depth mm	Section width mm	Module width mm	Connection area width	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for bar support Article No. per unit	Support for main busbar Article No. per unit	Busbar support for PEN Article No. per unit	Fitting kit for outgoing sections with circuit breaker in Form 4 Article No. per unit
600	425	425	0	XSFB0406 284232 122275 *	XSFH20 284245 122288 *	XBBB04 283859	see page xx	XBSP 283872	XSMFDB0406-2 125991 125992 *
			200	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMFDB0406 284246 122289 *
600	425	425	0	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMFDB0606-2 110252 122594 *
			200	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMFDB0406 284246 122289 *
800	425	425	400	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMFDB0406 284246 122289 *
			200	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMFDB0606 284248 122291 *
1000	600	600	400	XSFB1006 284241 122284 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMFDB0606 284248 122291 *
1200	600	600	600	XSFB1206 284243 122286 *	XSFH20 284245 122288 *	XBBB12 283863	see page xx	XBSP 283872	XSMFDB0606 284248 122291 *

Note

* Finish in special RAL colour



Closing strips	Mounting plates	Front panels	Separation p. partition connection/ dropper bar	Partition ¹⁾ connection area/ main busbar	Partition switchgear area/switchgear area	Support for dropper busbar	Extension bracket	Angle bracket for PE or PEN in connection area	Angle bracket for N+PEN in connection area
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPFC 284146	see page xx	see page xx	-	-	XPFCM04 284147	see page xx	-	-	-
XPFC 284146	see page xx	see page xx	XPFC2006 284132	XPFCB02 284745	XPFCM04 284147	see page xx	-	XDSFP 283895	XDSFN 283894
XPFC 284146	see page xx	see page xx	-	-	XPFCM06 284148	see page xx	XDB06 283885	-	-
XPFC 284146	see page xx	see page xx	XPFC2006 284132	XPFCB04 284119	XPFCM04 284147	see page xx	-	XDSFP 283895	XDSFN 283894
XPFC 284146	see page xx	see page xx	XPFC2006 284132	XPFCB02 284745	XPFCM06 284148	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894
XPFC 284146	see page xx	see page xx	XPFC2006 284132	XPFCB04 284119	XPFCM06 284148	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894
XPFC 284146	see page xx	see page xx	XPFC2006 284132	XPFCB06 284746	XPFCM06 284148	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894

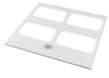
Note ¹⁾ Width = depending on module width and width of section
* Finish in special RAL colour



Door to switch gear area up to IP55 closed	Door to switch gear area up to IP31 ventilated right	Door to switch gear area up to IP31 ventilated left	Door to switch gear area up to IP55 transparent	Door to conn. area up to IP55 closed	Rear panel up to IP55 closed	Rear panel up to IP31 ventilated	Side panel up to IP55	Cover plate up to IP55 closed
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC2004 284198 122244 *	XSDMRV2004 284218 122264 *	XSDMLV2004 284209 122255 *	-	-	XSWC2004 284355 122346 *	XSWV2004 284360 122351 *	XAW2006 283857 122119 *	XSPTC0406 284302 122317 *
XSDFMC2004 284184 122232 *	XSDFMRV2004 284190 122238 *	XSDFMLV2004 284188 122236 *	-	XSD FCC2002 284182 122230 *	XSWC2006 284356 122347 *	XSWV2006 284361 122352 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *
XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *	XSDMD2006 284204 122250 *	-	XSWC2006 284356 122347 *	XSWV2006 284361 122352 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *
XSDFMC2004 284184 122232 *	XSDFMRV2004 284190 122238 *	XSDFMLV2004 284188 122236 *	XSDFMD2004 284186 122234 *	XSDFMC2004 284184 122232 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *
XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSD FCC2002-1 284700 122357 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *
XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSD FCC2004 284183 122231 *	XSWC2010 284358 122349 *	XSWV2010 284363 122354 *	XAW2006 283857 122119 *	XSPTC1006 284311 122326 *
XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSD FCC2006 102052 122416 *	XSWC2012 284359 122350 *	XSWV2012 284364 122355 *	XAW2006 283857 122119 *	XSPTC1206 284314 122329 *

Note

* Finish in special RAL colour



wa_vt25613



wa_vt25313



wa_vt08713



VT08106



wa_vt15013



VT25009



VT07906

Cover plate up to IP55 for flanges	Cover plate in several parts up to IP31 ¹⁾	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Universal profile for various mounting units	Separation panel section/ section	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPTF0406 284317	XSPBM0406 284287	XAD0406 283485	XAP010406 283823	XAP020406 283837	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122332 *	122302 *	122077 *	122091 *	122105 *				
XSPTF0606-XF 121440	XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122626 *	122305 *	122080 *	122094 *	122108 *				
XSPTF0606 284320	XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122335 *	122305 *	122080 *	122094 *	122108 *				
XSPTF0806-XF 121442	XSPBM0806-1 104533	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122628 *	122425 *	122083 *	122097 *	122111 *				
XSPTF0806-XF 121442	XSPBM0806-1 104533	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122628 *	122425 *	122083 *	122097 *	122111 *				
XSPTF1006-XF 121444	XSPBM1006-1 284296	XAD1006 283814	XAP011006 283832	XAP021006 283846	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122630 *	122311 *	122086 *	122100 *	122114 *				
XSPTF1206-XF 121446	XSPBM1206-1 284299	XAD1206 283816	XAP011206 283834	XAP021206 283848	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122632 *	122314 *	122088 *	122102 *	122116 *				

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.

Outgoing Section/Fixed in Form 4, Main Busbars rear-mounted (HSS), Section Depth 800 mm

Form 4



VT18610



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



VT19809

Section depth mm	Section width mm	Module width mm	Connection area width mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for support Article No. per unit	Support for main busbar Article No. per unit	Bar support for PEN Article No. per unit	Fitting kit for outgoing sections with circuit breaker in Form 4 Article No. per unit
800	425	425	0	XSFB0408 284233 122276 *	XSFH20 284245 122288 *	XBBB04 283859	see page xx	XBSP 283872	XSMFDB0406-2 125991 125992 *
	600	425	200	XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMFDB0408 284247 122290 *
		600	0	XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMFDB0606-2 110252 122594 *
800	425	400	400	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMFDB0408 284247 122290 *
		600	200	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMFDB0608-350 168937
1000	600	400	400	XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMFDB0608-350 168937
1200	600	600	600	XSFB1208 284244 122287 *	XSFH20 284245 122288 *	XBBB12 283863	see page xx	XBSP 283872	XSMFDB0608-350 168937

Note

* Finish in special RAL colour



Closing strips	Mounting plates	Front panels	Separation p. partition connection/dropper bar	Partition ¹⁾ connection area/main busbar	Partition switchgear area/switchgear area	Support for dropper busbar	Extension bracket	Angle bracket for PE or PEN in connection area	Angle bracket for N+PEN in connection area
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPFC 284146	see page xx	see page xx	-	-	XPFCM04 284147	see page xx	XDB06 283885	-	-
XPFC 284146	see page xx	see page xx	XPFC2008 284133	XPFCB02 284745	XPFCM04 284147	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894
XPFC 284146	see page xx	see page xx	-	-	XPFCM06 284148	see page xx	XDB06 283885	-	-
XPFC 284146	see page xx	see page xx	XPFC2008 284133	XPFCB04 284119	XPFCM04 284147	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894
XPFC 284146	see page xx	see page xx	XPFC2006 284132	XPFCB02 284745	XPFCM06 284148	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894
XPFC 284146	see page xx	see page xx	XPFC2006 284132	XPFCB04 284119	XPFCM06 284148	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894
XPFC 284146	see page xx	see page xx	XPFC2006 284132	XPFCB06 284746	XPFCM06 284148	see page xx	XDB06 283885	XDSFP 283895	XDSFN 283894

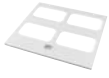
Note ¹⁾ Width = depending on module width and width of section
* Finish in special RAL colour



Door to switch gear area up to IP55 closed	Door to switch-gear area up to IP31 ventilated right	Door to switch gear area up to IP31 ventilated left	Door to switch gear area up to IP55 transparent	Door to connection area up to IP55 closed	Rear panel up to IP55 closed	Rear panel up to IP31 ventilated	Side panel up to IP55	Cover plate up to IP 55 closed
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC2004 284198 122244 *	XSDMRV2004 284218 122264 *	XSDMLV2004 284209 122255 *	-	-	XSWC2004 284355 122346 *	XSWV2004 284360 122351 *	XAW2008 283858 122120 *	XSPTC0408 284303 122318 *
XSDMC2004 284198 122244 *	XSDFMRV2004 284190 122238 *	XSDFMLV2004 284188 122238 *	-	XSDFCC2002 284182 122230 *	XSWC2006 284356 122347 *	XSWV2006 284361 122352 *	XAW2008 283858 122120 *	XSPTC0608 284306 122321 *
XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *	XSDMD2006 284204 122250 *	-	XSWC2006 284356 122347 *	XSWV2006 284361 122352 *	XAW2008 283858 122120 *	XSPTC0608 284306 122321 *
XSDFMC2004 284184 122232 *	XSDFMRV2004 284190 122238 *	XSDFMLV2004 284188 122236 *	XSDFMD2004 284186 122234 *	XSDFMC2004 284184 122232 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *
XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSDFCC2002-1 284700 122357 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *
XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSDFCC2004 284183 122231 *	XSWC2010 284358 122349 *	XSWV2010 284363 122354 *	XAW2008 283858 122120 *	XSPTC1008 284312 122327 *
XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSDFCC2006 102052 122416 *	XSWC2012 284359 122350 *	XSWV2012 284364 122355 *	XAW2008 283858 122120 *	XSPTC1208 284315 122330 *

Note

* Finish in special RAL colour



wa_vt25613



wa_vt25313



wa_vt08713



VT08106



wa_vt15013



VT25009



VT07906

Cover plate up to IP55 for flanges	Cover plate in several parts up to IP31 ¹⁾	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Universal profile for various mounting units	Separation p. section/ section	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPTF0408 284318	XSPBM0408 284288	XAD0408 283486	XAP010408 283824	XAP020408 283838	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122333 *	122303 *	122078 *	122092 *	122106 *				
XSPTF0608-XF 121441	XSPBM0608 284291	XAD0608 283489	XAP010608 283827	XAP020608 283841	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122627 *	122306 *	122081 *	122095 *	122109 *				
XSPTF0608 284321	XSPBM0608 284291	XAD0608 283489	XAP010608 283827	XAP020608 283841	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122336 *	122306 *	122081 *	122095 *	122109 *				
XSPTF0808-XF 121443	XSPBM0808-1 104534	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122629 *	122426 *	122084 *	122098 *	122112 *				
XSPTF0808-XF 121443	XSPBM0808-1 104534	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122629 *	122426 *	122084 *	122098 *	122112 *				
XSPTF1008-XF 121445	XSPBM1008-1 284297	XAD1008 283815	XAP011008 283833	XAP021008 283847	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122631 *	122312 *	122087 *	122101 *	122115 *				
XSPTF1208-XF 121447	XSPBM1208-1 284300	XAD1208 283817	XAP011208 283835	XAP021208 283849	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122633 *	122315 *	122089 *	122103 *	122117 *				

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

xEnergy Switchboards

Accessories

Fitting kits for outgoing sections Form 4



VT19809



VT19509

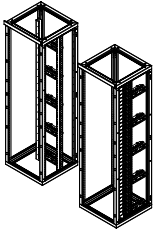
Section depth mm	Fitting kits for LS outgoing sections module width 400 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections module width 600 mm depth = 275 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections module width 600 mm depth = 475 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections module width 400 mm Form 4 without cable conn. Article No. per unit	Fitting kits for LS outgoing sections module width 600 mm Form 4 without cable conn. Article No. per unit	Fitting kits for LS outgoing sections Form 4 special-fitting kit Dubai Article No. per unit	
600	XSMFDB0406 284246 122289 *	XSMFDB0606 284248 122291 *	-	XSMFDB0406-2 125991 125992 *	XSMFDB0606-2 110252 122594 *	XSMFIB06-1 109255 122586 *	
800	XSMFDB0408 284247 122290 *	XSMFDB0608 284249 122292 *	XSMFDB0608-350 168937	XSMFDB0406-2 125991 125992 *	XSMFDB0606-2 110252 122594 *	XSMFIB06-1 109255 122586 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

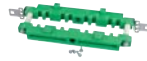
Dropper Bars up to 1600 A for Outgoing Sections, Fitting Kits



00123137_0

Features:

- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT, TT
- I_{CW} (1 s) up to 50 kA¹⁾



wa_vt58813



wa_vt58913

Angle bracket for N and PEN in the cable connection area



wa_vt69913



wa_vt70013

I_e	Busbar cross-sections		Type of busbar support		Type of support for conductor in connection area ¹⁾	
	L1, L2, L3, full N mm ²	PE, PEN mm ²	3 poles L1, L2, L3, or 4 poles L1, L2, L3, N	End support at the bottom	PE or PEN	N+PEN
A			Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Dropper bars on the side, center-to-center phase distance 60 mm						
800	2 x 20 x 10	1 x 20 x 10	XDSF08 283888	XDSF08E 283889	XDSFP 283895	XDSFN 283894
1250	2 x 40 x 10	1 x 40 x 10	XDSF12 283890	XDSF12E 283891	XDSFP 283895	XDSFN 283894
1600	2 x 60 x 10	1 x 60 x 10	XDSF16 283892	XDSF16E 283893	XDSFP 283895	XDSFN 283894



wa_vt59013



VT00412

Module width	Type Extension bracket for busbar support XDSF... for rear-mounted dropper bars	Type Extension bracket for busbar support (strong design for lowest position)
mm	Article No. per unit	
425	not required	-
600	XDB06 283885	XADB06E 166745

Note

¹⁾ Also suitable for mounting cable ducts, auxiliary busbars etc.

xEnergy Switchboards

Accessories for Outgoing Sections: Partitions for Internal Separation



VT25108



wa_vt58013



wa_vt71913



wa_vt57913

Section depth mm	Form 2/4 Partition connection area/dropper bar area Article No. per unit unit = 1 set	Module width mm	Form 4 Partition switchgear area/switchgear area Article No. per unit unit = 1 set	Section width mm	Form 2/4 Connection area/dropper bar area in the widths of 200/400/600 Article No. per unit unit = 1 set	Form 4 Closing strip switchgear a./connection area L = 650 mm Article No. per unit unit = 1 set
600	XPFC2006 284132	425	XPFMM04 284147	800	XPFCB02 284745	XPFMC 284146
800	XPFC2008 284133	600	XPFMM06 284148	1000	XPFCB04 284119	-
-	-	-	-	1200	XPFCB06 284746	-

Accessories for Outgoing Sections: Mounting Brackets for Underground Mounting Plates



VT18409

Underground bracket Article No. per unit unit = 2 pcs. left bracket, 2 pcs. right bracket	
XMBD 283921	

xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy EBS Front Panels for FAZ



Width mm	UK H = 50 mm for PLH switch Article No. per unit	H = 150 mm Article No. per unit	H = 200 mm Article No. per unit	H = 300 mm Article No. per unit	H = 400 mm Article No. per unit
425	-	XMMC0604C 283979 122152 *	XMMC0804C 283983 122154 *	XMMC1204C 283987 122156 *	XMMC1604C 283991 122158 *
600	XMPL10606C-UK 110258 122595 *	XMMC0606C 283981 122153 *	XMMC0806C 283985 122155 *	XMMC1206C 283989 122157 *	XMMC1606C 283993 122159 *
800	-	XMMC0608C 106718 122507 *	XMMC0808C 106730 122509 *	-	-
1000	-	XMMC0610C 106719 122508 *	XMMC0810C 106731 122510 *	-	-

Accessories for Outgoing Sections: xEnergy EBS Front Panels - Empty



Width mm	H = 25mm Article No. per unit	H = 50mm Article No. per unit	H = 100mm Article No. per unit	H = 150mm Article No. per unit	H = 200mm Article No. per unit	H = 250mm Article No. per unit	H = 300mm Article No. per unit	H = 400mm Article No. per unit	H = 600mm Article No. per unit	H = 800mm Article No. per unit	ventilated H = 100mm Article No. per unit
425	-	XME0204C 283922 122121 *	XME0404C 283926 122123 *	XME0604C 283934 122129 *	XME0804C 283939 122134 *	XME1004C 144587 144589 *	XME1204C 283946 122139 *	XME1604C 283948 122141 *	XME2404C 294923 122412 *	-	XME0404CV 283928 122125 *
600	XME0106C 158619 158620 *	XME0206C 283924 122122 *	XME0406C 283930 122126 *	XME0606C 283936 122131 *	XME0806C 283942 122136 *	XME1006C 144588 144590 *	XME1206C 283947 122140 *	XME1606C 283950 122142 *	XME2406C 294924 122413 *	XME3206C 294926 122415 *	XME0406CV 283932 122128 *

Note

* Finish in special RAL colour

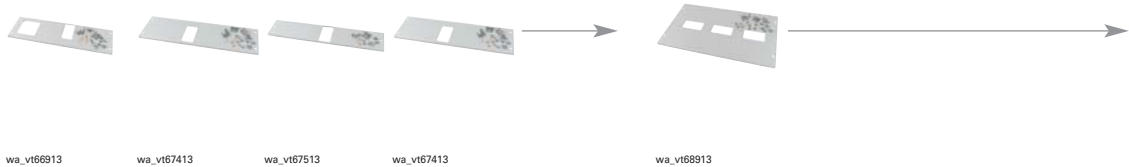
xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy EBS Front Panels for PKZ 0/4/2



Width mm	Horizontal 3 poles H = 50 mm PKZ0 Article No. per unit	Horizontal 3 poles H = 100 mm PKZ4 Article No. per unit
425	XMP030204C 284087 122212 *	XMP430404C 284095 122214 *
600	XMP030206C 284089 122213 *	XMP430406C 284097 122215 *

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM1



Width mm	UK 1xNZM1 horiz. 4 poles H = 150 mm fixed with cut-out for measuring device 90/90 Article No. per unit	UK 1xNZM1 horiz. 4 pole H = 150 mm fixed Article No. per unit	1xNZM1 horizontal 3 poles H = 100 mm fixed Article No. per unit	1xNZM1 horizontal 4 poles H = 150 mm fixed Article No. per unit	1xNZM1 horizontal 4 poles H = 150 mm plug-in module t. Article No. per unit	2xNZM1 vertical 3 poles H = 300 mm fixed Article No. per unit	3xNZM1 vertical 3 poles H = 300 mm fixed Article No. per unit	2xNZM1 vertical 4 poles H = 300 mm fixed Article No. per unit	3xNZM1 vertical 4 poles H = 300 mm fixed Article No. per unit
425	-	-	XMN130404C 283995 122160 *	XMN140604C 284003 122164 *	XMN130604C 121799 122637 *	XMN131204CV 283999 122162 *	-	XMN141204CV 284007 122166 *	-
600	XMN140606C-1-UK 110262 122599 *	XMN140606C-UK 110259 122596 *	XMN130406C 283997 122161 *	XMN140606C 284005 122165 *	XMN130606C 121797 122636 *	-	XMN131206CV 284001 122163 *	-	XMN141206CV 284009 122167 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM2



wa_vt54613

Width mm	UK 1xNZM2 horizontal 4 poles H = 200 mm with cut-out for measuring dev.t fixed Article No. per unit	UK 1xNZM2 horizontal 4 poles H = 200 mm fixed Article No. per unit	1xNZM2 horizontal 3 poles H = 150 mm fixed Article No. per unit	1xNZM2 horizontal 3 poles H = 150 mm plug-in mod. technology Article No. per unit	1xNZM2 horizontal 3 poles H = 150 mm with motor lift (placed 15mm above front panel) Article No. per unit	1xNZM2 horizontal 4 poles H = 200 mm fixed Article No. per unit	1xNZM2 horizontal 4 poles H = 200 mm with motor lift (placed 15mm above front panel) Article No. per unit	1xNZM2 horizontal 4 poles H = 200 mm plug-in mod. technology Article No. per unit
425	-	-	XMN230604C 284011 122168 *	-	-	XMMC0804C 283983 122154 *	-	-
600	XMN240606C-1-UK 110263 122600 *	XMN240606C-UK 110260 122597 *	XMN230606C 284013 122169 *	XMN230606C 284013 122169 *	XMN230606CR 292907 122406 *	XMN240806C 284026 122176 *	XMN240806CR 125993 125994 *	XMN240806C 284026 122176 *

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM2 (cont.)



wa_vt70713

Width mm	1xNZM2 horizontal 4 poles H = 200 mm cover for RCD module fixed Article No. per unit	2xNZM2 vertical 3 poles H = 400 mm fixed Article No. per unit	3xNZM2 vertical 3 poles H = 400 mm fixed Article No. per unit	2xNZM2 vertical 3 poles H = 600 mm plug-in mod. technology Article No. per unit	3xNZM2 vertical 3 poles H = 600 mm plug-in mod. technology Article No. per unit	2xNZM2 vertical 4 poles H = 400 mm fixed Article No. per unit	2xNZM2 vertical 4 poles H = 600 mm plug-in module technology Article No. per unit
425	-	XMN231604CV 284015 122170 *	-	XMN232404CV 284019 122172 *	-	XMN241604CV 284028 122177 *	XMN242404CV 284032 122179 *
600	XMN240806CF 284659 122356 *	-	XMN231606CV 284017 122171 *	-	XMN232406CV 284021 122173 *	XMN241606CV 284030 122178 *	XMN242406CV 284034 122180 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM3



wa_vt67113

Width mm	UK 1xNZM3 horizontal 4 poles H = 250 mm with cut-out for measuring dev. fixed Article No. per unit	UK 1xNZM3 horizontal 4 poles H = 250 mm fixed Article No. per unit	1xNZM3 horizontal 3 poles H = 200 mm fixed Article No. per unit	1xNZM3 horizontal 3 poles H = 250 mm fixed Article No. per unit	1xNZM3 horizontal 4 poles H = 250 mm fixed Article No. per unit	1xNZM3 horizontal 4 poles H = 300 mm fixed Article No. per unit	1xNZM3 horizontal 3 poles H = 600 mm fixed Article No. per unit	2xNZM3 vertical 3 poles H = 600 mm fixed Article No. per unit
425	-	-	-	-	-	-	XMN332404CV2 284044 122186 *	-
600	XMN340606C-1-UK 110264 122601 *	XMN340606C-UK 110261 122598 *	XMN330806C 284036 122181 *	XMN331006C 284039 122183 *	XMN341006C 284052 122191 *	XMN341206C 284055 122193 *	-	XMN332406CV2 284049 122189 *

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM3 (cont.)



wa_vt73013

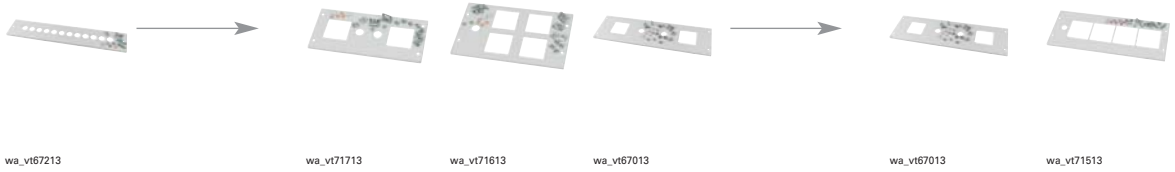
Width mm	1xNZM3 vertical 3 poles H = 600 mm withdrawable, suitable only for sections of 800 mm depth Article No. per unit	1xNZM3 vertical 4 poles H = 600 mm fixed Article No. per unit	1xNZM3 vertical 4 poles H = 600 mm withdrawable, suitable only for sections of 800 mm depth Article No. per unit	1xNZM3 horizontal 3 poles H = 200 mm with motor lift, lift sticks 55 mm out of front panel, no turning of the front panel possible, fixed Article No. per unit	1xNZM3 horizontal 3 poles H = 250 mm with motor lift, lift sticks 55 mm out of front panel, no turning of the front panel possible, fixed Article No. per unit
425	XMN332404CV1 284042 122184 *	XMN342404CV2 284060 122196 *	XMN342404CV1 284058 122194 *	-	-
600	XMN332406CV1 284047 122187 *	XMN342406CV2 284065 122200 *	XMN342406CV1 284063 122198 *	XMN330806CR 284037 122182 *	XMN341006CR 284053 122192 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: EBS Front Panels with Punch Holes, EBS Front Panels with Cut-out for Measuring Devices



Width mm	9xRMQ D = 22.5 mm H = 100 mm	12xRMQ D = 22.5 mm H = 100 mm	2xMeasuring dev. 72/72 2xchange-over switch H = 150 mm	4xMeasuring dev. 72/72 1xchange-over switch H = 200 mm	2xMeasuring dev. 72/72 2xchange-over switch H = 150 mm	4xMeasuring dev. 96/96 2xchange-over switch H = 150 mm	2xMeasuring dev. 96/96 2xchange-over switch H = 200 mm	4xMeasuring dev. 96/96 1xchange-over switch H = 200 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XME0404CI 283927 122124 *	-	XME0604CM 283935 122130 *	XME0804CM 283940 122135 *	-	-	-	-
600	-	XME0406CI 283931 122127 *	-	-	XME0606CM2 283937 122132 *	XME0606CM4 283938 122133 *	XME0806CM2 283943 122137 *	XME0806CM4 283944 122138 *

Accessories for Outgoing Sections: Covers for circuit breaker cut-out



Poles	NZM1- Closing plate for closing the front cover (spare space)	NZM2- Closing plate for closing the front cover (spare space)	NZM3- Closing plate for closing the front cover (spare space)	
	Article No. per unit	Article No. per unit	Article No. per unit	
3 poles	XAS1-4 284740 122363 *	XAS2-3 284741 122364 *	XAS3-3 284743 122366 *	
4 poles	XAS1-4 284740 122363 *	XAS2-4 284742 122365 *	XAS3-4 284744 122367 *	

Note

* Finish in special RAL colour

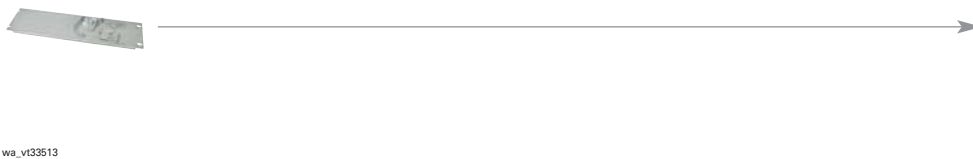
xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for FAZ



Width mm	UK	min. H = 150 mm 1 row	min. H = 200 mm 1 row	min. H = 300 mm 2 rows	min. H = 400 mm 2 rows	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMMC0604M 283980	XMMC0804M 283984	XMMC1204M 283988	XMMC1604M 283992	
600	XMPL10606M-UK 110254	XMMC0606M 283982	XMMC0806M 283986	XMMC1206M 283990	XMMC1606M 283994	
800	-	XMMC0608M 106736	XMMC0808M 106737	-	-	
1000	-	XMMC0610M 106738	XMMC0810M 106739	-	-	

Accessories for Outgoing Sections: Mounting Plates - Empty



Width mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XME0204M 283923	XME0404M 283929	XME0604M 284727	XME0804M 283941	XME1004M 144585	XME1204M 285684	XME1404M-1 110333	XME1604M 283949
600	XME0206M 283925	XME0406M 283933	XME0606M 284728	XME0806M 283945	XME1006M 144586	XME1206M 285686	XME1406M-1 110339	XME1606M 283951

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for PKZ



wa_vt68313

wa_vt68113

Width mm	horizontal 3 poles H = 50 mm	horizontal 3 poles H = 100 mm	
	Article No. per unit	Article No. per unit	
425	XMP030204M 284088	XMP430404M 284096	
600	XMP030206M 284090	XMP430406M 284098	

Accessories for Outgoing Sections: Mounting Plates for NZM1



wa_vt68013

wa_vt68113

Width mm	UK 1xNZM1 horiz. 4 poles H = 150 mm fixed	1xNZM1 horizontal 3 poles H = 100 mm fixed	1xNZM1 horizontal 4 poles H = 150 mm fixed	1xNZM1 horizontal 3 poles H = 150 mm plug-in module technology	2xNZM1 vertical 3 poles H = 300 mm fixed	3xNZM1 vertical 3 poles H = 300 mm fixed	2xNZM1 vertical 4 poles H = 300 mm fixed	3xNZM1 vertical 4 poles H = 300 mm fixed	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMN130404M 283996	XMN140604M 284004	XMN130604MP 121798	XMN131204MV 284000	-	XMN141204MV 284008	-	
600	XMN140606M-UK 110255	XMN130406M 283998	XMN140606M 284006	XMN130606MP 121796	-	XMN131206MV 284002	-	XMN141206MV 284010	

xEnergy Switchboards

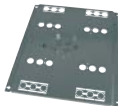
Accessories for Outgoing Sections: Mounting Plates for NZM2



wa_vt54913

Width mm	UK 1xNZM2 horizontal 4 poles H = 200 mm fixed	1xNZM2 horizontal 3 poles H = 150 mm fixed	1xNZM2 horizontal 3 poles H = 150 mm plug-in module technology	1xNZM2 horizontal 3 poles H = 150 mm with motor lift (sticking 15mm out of front panel)	1xNZM2 horizontal 4 poles H = 200 mm fixed	1xNZM2 horizontal 4 poles H = 200 mm plug-in module technology	1xNZM2 horizontal 4 poles H = 200 mm cover for RCD module fixed	2xNZM2 vertical 3 poles H = 400 mm fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	XMN230604M 284012	-	-	XMN240804M 284025	-	-	XMN231604MV 284016
600	XMN240606M-UK 110256	XMN230606M 284014	XMN230606MP 284724	XMN230606M 284014	XMN240806M 284027	XMN240806MP 284726	XMN240806MF 134485	-

Accessories for Outgoing Sections: Mounting Plates for NZM2 (several devices on one plate)



wa_vt73113

Width mm	3xNZM2 vertical 3 poles H = 400 mm fixed	2xNZM2 vertical 3 poles H = 600 mm plug-in module technology	3xNZM2 vertical 3 poles H = 600 mm plug-in module technology	2xNZM2 vertical 4 poles H = 400 mm fixed	2xNZM2 vertical 4 poles H = 600 mm plug-in module technology	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMN232404MV 284020	-	XMN241604MV 284029	XMN242404MV 284033	
600	XMN231606MV 284018	-	XMN232406MV 284022	XMN241606MV 284031	XMN242406MV 284035	

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for NZM3



wa_v172913

Width mm	UK 1xNZM3 horizontal 4 poles H = 250 mm fixed	1xNZM3 horizontal 3 poles H = 200 mm fixed	1xNZM3 horizontal 3 poles H = 250 mm fixed	1xNZM3 horizontal 4 poles H = 250 mm fixed	1xNZM3 horizontal 4 poles H = 300 mm fixed	1xNZM3 vertical 3 poles H = 600 mm fixed	2xNZM3 vertical 3 poles H = 600 mm fixed	1xNZM3 vertical 3 poles H = 600 mm withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	-	-	-	-	XMN332404MV 284046	-	XMN332404MV 284046
600	XMN340606M-UK 110257	XMN330806M 284038	XMN331006M 284041	XMN341006M 284054	XMN341206M 284057	-	XMN332406MV 284051	XMN332406MV 284051

Accessories for Outgoing Sections: Mounting Plates for NZM3 (cont.)



wa_v172913

Width mm	1xNZM3 vertical 4 poles H = 600 mm fixed	1xNZM3 vertical 4 poles H = 600 mm withdrawable	1xNZM3 horizontal 3 poles H = 200 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed	1xNZM3 horizontal 4 poles H = 250 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XMN342404MV 284062	XMN342404MV 284062	-	-
600	XMN342406MV 284067	XMN342406MV 284067	XMN330806M 284038	XMN341006M 284054

xEnergy Switchboards

Accessories for 5000A application with a section depth of 1000mm

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

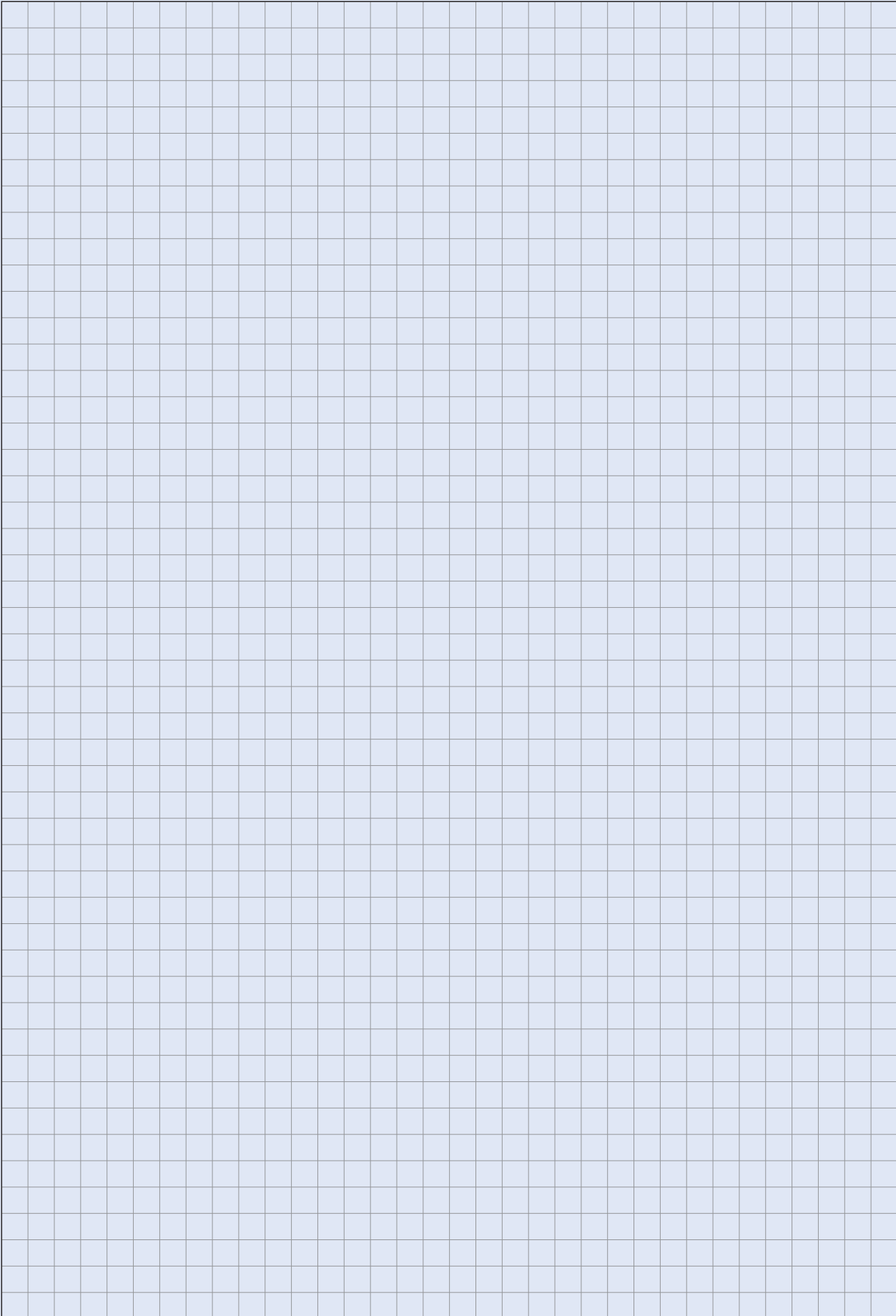


VT01611

Section width mm	Switchgear area width mm	Cable connect. area width mm	NZM outgoing sections Form 2/4	Article No. per unit unit = 1 set	For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.
600	425	172	XPFBCB172 158606		
800	425	372	XPFBCB372 158607		
	600	197	XPFBCB197 158608		
1000	600	397	XPFBCB397 158609		
1200	600	597	XPFBCB597 158610		

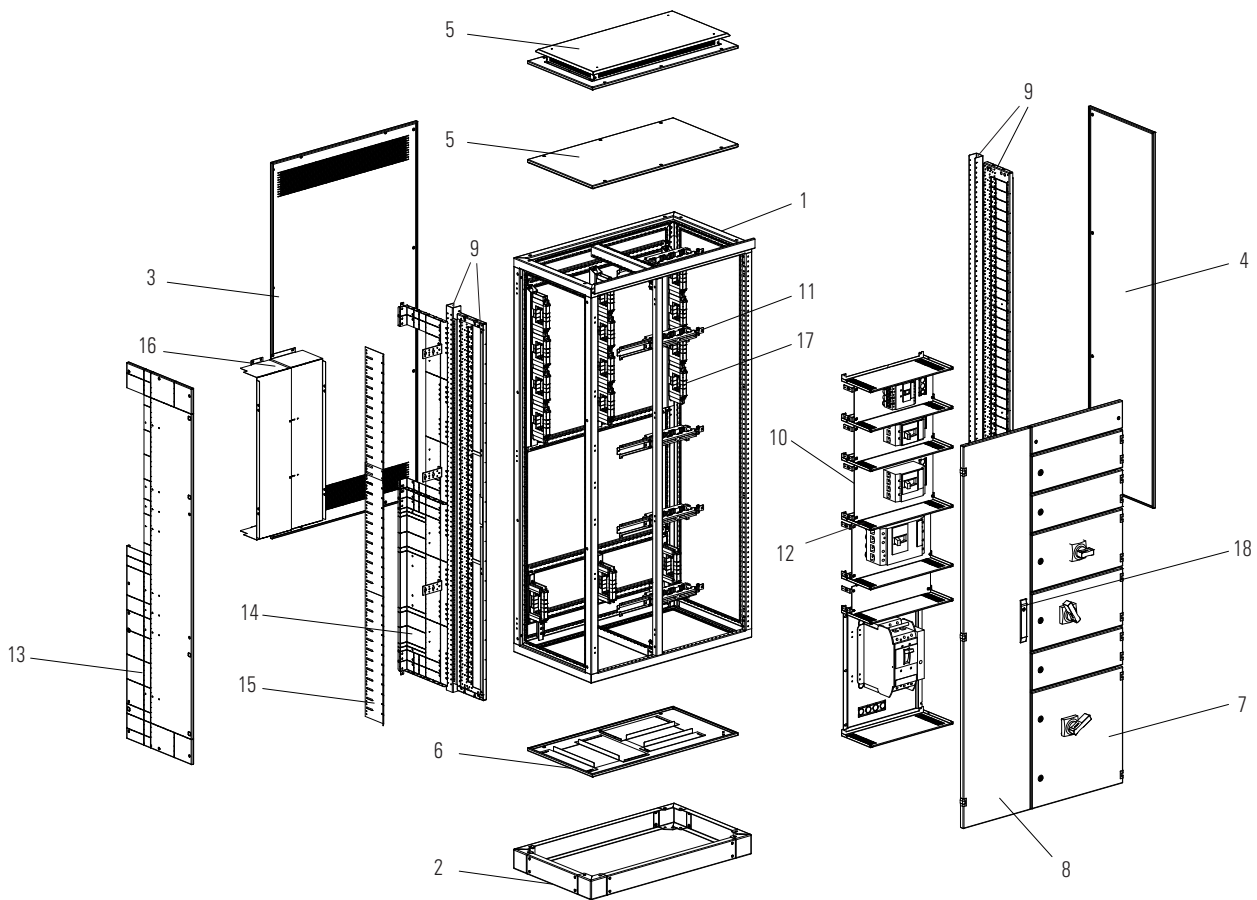
xEnergy Switchboards

Notes



Box Solution Motor Control Center - Fixed Installation Type

Katalog 3-1-BS



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door to switchgear area
- 8 Door to connection area
- 9 Fitting kit for box solution
- 10 Mounting plate
- 11 Support for dropper bar
- 12 Partition switchgear area/switchgear area
- 13 Separation panel section/section
- 14 Partition dropper bar area/connection area
- 15 Closing strip
- 16 Partition main busbar/connection area
- 17 Support for main busbar

- 18 Lock mechanism

Features

- Widths of 800/1000/1200 mm
- Module widths of 425 and 600 mm
- Each module comes with its own door to the switchgear area
- 3 or 4 poles
- Fixed or withdrawable
- Suitable for switchgear with remote operation
- To be operated behind the door or with rotary door coupling handle
- Dropper bar from 800 to 1600 A
- Empty plates and module plates for the setup of out-goers (RCD, FAZ, ...)
- IP31/55
- Form 4

Notes

Frame comes with a blue design strip.
Doors include locking system for 3mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durystone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Box Solution, Motor Control Center - Fixed Installation Type, with Cable Area



VT19510



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



VT00509



VT25109



wa_vt71913

Section depth mm	Section width mm	Module width mm	Frames Article No. per unit	Vertical profiles (to replace a front post) Article No. per unit	Crossbar for bar support Article No. per unit	Bar support for main bus bar Article No. per unit	Bar support for PEN Article No. per unit	Fitting kit for box solution incl. 4 th post for frame Article No. per unit	Separation p. partition connection/dropper bar Article No. per unit	Partition connection area/main bus-bar Article No. per unit
600	800	425	XSFB0806 284238	XSFH20 284245	XBBB08 283861	see page XX	XBSP 283872	XSMFDB0606-BS 125829	XPFC2006 284132	XPFCB04 284119
			122281 *	122288 *			125971 *			
	800	600	XSFB0806 284238	XSFH20 284245	XBBB08 283861	see page XX	XBSP 283872	XSMFDB0606-BS 125829	XPFC2006 284132	XPFCB02 284745
			122281 *	122288 *			125971 *			
1000	600	XSFB1006 284241	XSFH20 284245	XBBB10 283862	see page XX	XBSP 283872	XSMFDB0606-BS 125829	XPFC2006 284132	XPFCB04 284119	
		122284 *	122288 *			125971 *				
1200	600	XSFB1206 284243	XSFH20 284245	XBBB12 283863	see page XX	XBSP 283872	XSMFDB0606-BS 125829	XPFC2006 284132	XPFCB06 284746	
		122286 *	122288 *			125971 *				
800	800	425	XSFB0808 284239	XSFH20 284245	XBBB08 283861	see page XX	XBSP 283872	XSMFDB0608-BS 125970	XPFC2008 284133	XPFCB04 284119
			122282 *	122288 *			125972 *			
	800	600	XSFB0808 284239	XSFH20 284245	XBBB08 283861	see page XX	XBSP 283872	XSMFDB0608-BS-350 168936	XPFC2006 284132	XPFCB02 284745
			122282 *	122288 *						
1000	600	XSFB1008 284242	XSFH20 284245	XBBB10 283862	see page XX	XBSP 283872	XSMFDB0608-BS-350 168936	XPFC2006 284132	XPFCB04 284119	
		122285 *	122288 *							
1200	600	XSFB1208 284244	XSFH20 284245	XBBB12 283863	see page XX	XBSP 283872	XSMFDB0608-BS-350 168936	XPFC2006 284132	XPFCB06 284746	
		122287 *	122288 *							

Note

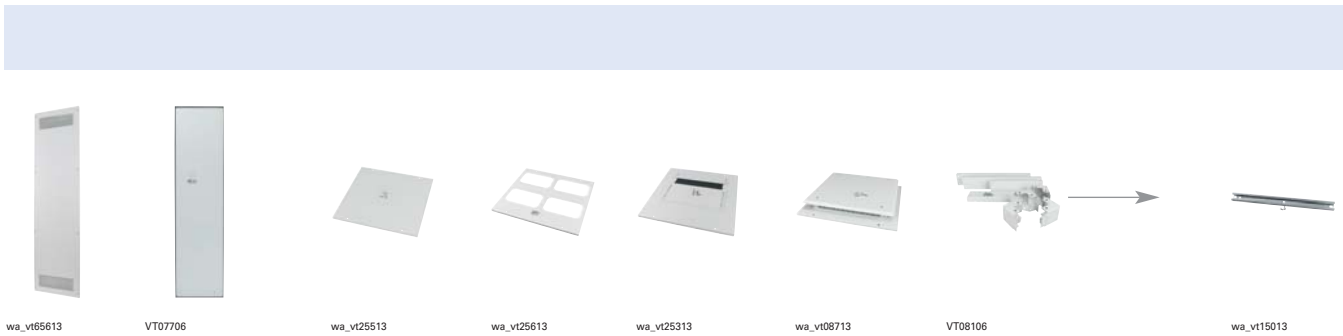
* Finish in special RAL colour



Partition switchgear area/switch gear area	Support for dropper busbar	Extension bracket	Angle bracket for PE or PEN in connection area	Angle bracket for N+PEN in connection area	Mounting plates	Door box solution - doors to switchgear area	Door to connection area up to IP 55 closed	Rear panel up to IP55 closed
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XPFMM04 284147	see page XX	-	XDSFP 283895	XDSFN 283894	see page XX	see page XX	XSDFMC2004 284184 122232 *	XSWC2008 284357 122348 *
XPFMM06 284148	see page XX	XDB06 283885	XDSFP 283895	XDSFN 283894	see page XX	see page XX	XSDFCC2002-1 284700 122357 *	XSWC2008 284357 122348 *
XPFMM06 284148	see page XX	XDB06 283885	XDSFP 283895	XDSFN 283894	see page XX	see page XX	XSDFCC2004 284183 122231 *	XSWC2010 284358 122349 *
XPFMM06 284148	see page XX	XDB06 283885	XDSFP 283895	XDSFN 283894	see page XX	see page XX	XSDFCC2006 102052 122416 *	XSWV2012 284364 122355 *
XPFMM04 284147	see page XX	-	XDSFP 283895	XDSFN 283894	see page XX	see page XX	XSDFMC2004 284184 122232 *	XSWC2008 284357 122348 *
XPFMM06 284148	see page XX	XDB06 283885	XDSFP 283895	XDSFN 283894	see page XX	see page XX	XSDFCC2002-1 284700 122357 *	XSWC2008 284357 122348 *
XPFMM06 284148	see page XX	XDB06 283885	XDSFP 283895	XDSFN 283894	see page XX	see page XX	XSDFCC2004 284183 122231 *	XSWC2010 284358 122349 *
XPFMM06 284148	see page XX	XDB06 283885	XDSFP 283895	XDSFN 283894	see page XX	see page XX	XSDFCC2006 102052 122416 *	XSWV2012 284364 122355 *

Note

* Finish in special RAL colour



Rear panel up to IP31 ventilated	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate up to IP31 ¹⁾ in several parts	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rails 2 units per section
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806-XF 121442	XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR04 283850
122353 *	122119 *	122323 *	122628 *	122308 *	122083 *	122097 *	122111 *	
XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806-XF 121442	XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR04 283850
122353 *	122119 *	122323 *	122628 *	122308 *	122083 *	122097 *	122111 *	
XSWV2010 284363	XAW2006 283857	XSPTC1006 284311	XSPTF1006-XF 121444	XSPBM1006-1 284296	XAD1006 283814	XAP011006 283832	XAP021006 283846	XAR04 283850
122354 *	122119 *	122326 *	122630 *	122311 *	122086 *	122100 *	122114 *	
XSWC2012 284359	XAW2006 283857	XSPTC1206 284314	XSPTF1206-XF 121446	XSPBM1206-1 284299	XAD1206 283816	XAP011206 283834	XAP021206 283848	XAR04 283850
122350 *	122119 *	122329 *	122632 *	122314 *	122088 *	122102 *	122116 *	
XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808-XF 121443	XSPBM0808 284294	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR06 283851
122353 *	122120 *	122324 *	122629 *	122309 *	122084 *	122098 *	122112 *	
XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808-XF 121443	XSPBM0808 284294	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR06 283851
122353 *	122120 *	122324 *	122629 *	122309 *	122084 *	122098 *	122112 *	
XSWV2010 284363	XAW2008 283858	XSPTC1008 284312	XSPTF1008-XF 121445	XSPBM1008-1 284297	XAD1008 283815	XAP011008 283833	XAP021008 283847	XAR06 283851
122354 *	122120 *	122327 *	122631 *	122312 *	122087 *	122101 *	122115 *	
XSWC2012 284359	XAW2008 283858	XSPTC1208 284315	XSPTF1208-XF 121447	XSPBM1208-1 284300	XAD1208 283817	XAP011208 283835	XAP021208 283849	XAR06 283851
122350 *	122120 *	122330 *	122633 *	122315 *	122089 *	122103 *	122117 *	

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.



wa_vt15013



VT25009



VT07906

Cable strain relief rails 3 units per section	Universal profile for various mounting units	Separation p. section/section	
Article No. per unit	Article No. per unit	Article No. per unit	
XAR06 283851	XSMPB20 288997	XPSS2006 284178	
XAR06 283851	XSMPB20 288997	XPSS2006 284178	
XAR06 283851	XSMPB20 288997	XPSS2006 284178	
XAR06 283851	XSMPB20 288997	XPSS2006 284178	
XAR08 283852	XSMPB20 288997	XPSS2008 284179	
XAR08 283852	XSMPB20 288997	XPSS2008 284179	
XAR08 283852	XSMPB20 288997	XPSS2008 284179	
XAR08 283852	XSMPB20 288997	XPSS2008 284179	

Note

* Finish in special RAL colour

Box Solution, Motor Control Center - Fixed Installation Type, without Cable Area



VT19510



VT13310



VT10109



wa_vt168713



wa_vt33413



VT27209



VT00509



VT25109

Section depth mm	Section width mm	Module width (= Section width) mm	Frames Article No. per unit	Vertical profiles (to replace a front post) Article No. per unit	Crossbar for bar support Article No. per unit	Bar support for main bus bar Article No. per unit	Bar support for PEN Article No. per unit	Fitting kit for box solution incl. 4 th post for frame Article No. per unit	Partition switchgear area/switch gear area Article No. per unit
600	600	600	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see Page xx	XBSP 283872	XSMFDB0606-BS-2 168934	XPFMM04 284147
		800	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see Page xx	XBSP 283872	XSMFDB0606-BS-2 168934	XPFMM06 284148
800	600	600	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see Page xx	XBSP 283872	XSMFDB0608-BS-2-350 168935	XPFMM04 284147
		800	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see Page xx	XBSP 283872	XSMFDB0608-BS-350 168935	XPFMM06 284148

Note

* Finish in special RAL colour



wa_vt58813



wa_vt59013



wa_vt72913



wa_vt70213



wa_vt25213



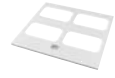
wa_vt65613



VT07706



wa_vt25513



wa_vt25613

Support for dropper busbar	Extension bracket	Mounting plates	Door box solution - doors to switchgear area	Rear panel up to IP55 closed	Rear panel up to IP31 ventilated	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	-	see page xx	see page xx	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806-XF 121442 122628 *
see page xx	XDB06 283885	see page xx	see page xx	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806-XF 121442 122628 *
see page xx	-	see page xx	see page xx	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *	XSPTF0808-XF 121443 122629 *
see page xx	XDB06 283885	see page xx	see page xx	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *	XSPTF0808-XF 121443 122629 *



wa_vt25313



wa_vt08713



VT08106



wa_vt15013



VT25009



VT07906

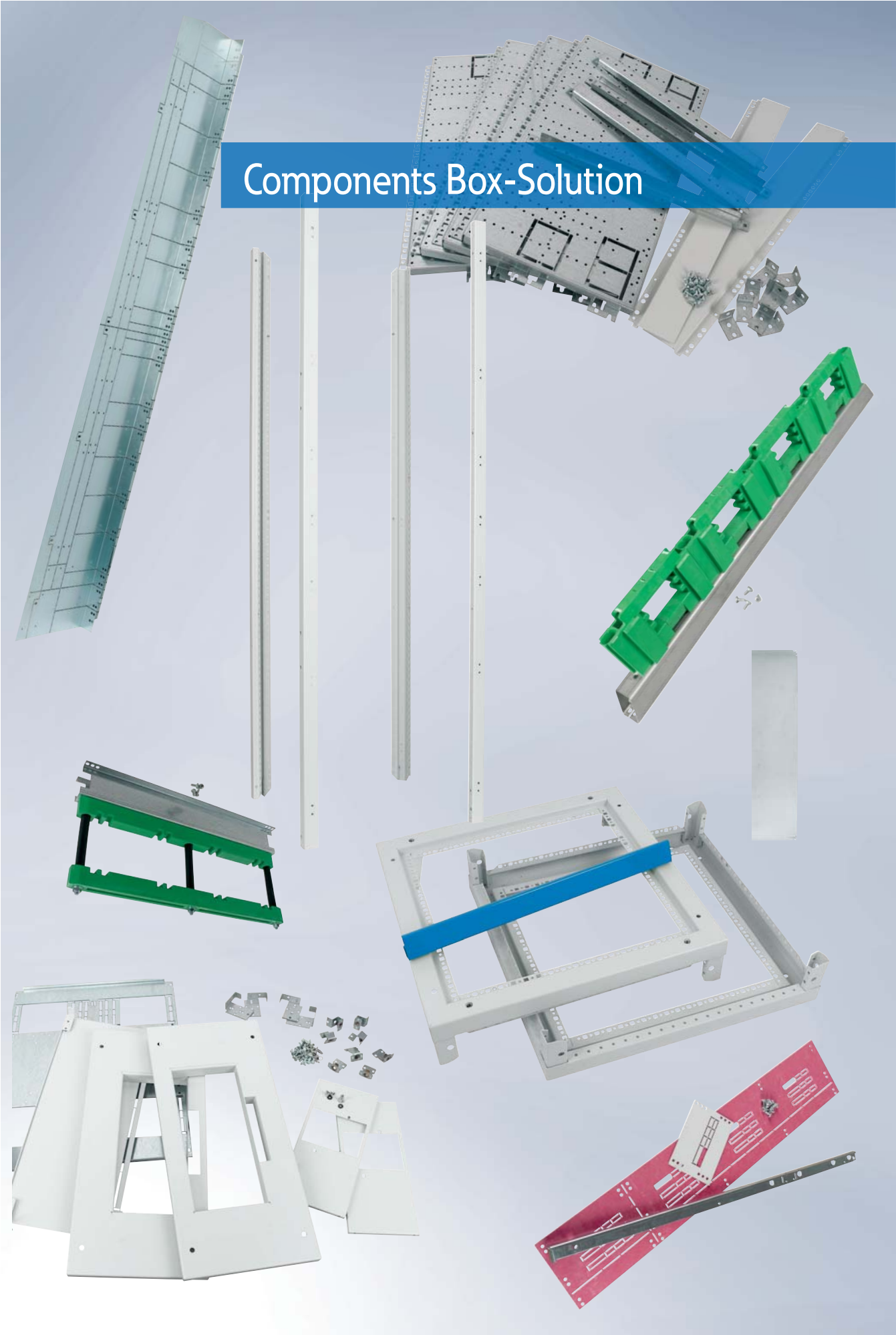
Cover plate up to IP31 ¹⁾ in several parts	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rails 2 units per section	Cable strain relief rails 3 units per section	Universal profile for various mounting units	Separation p. section/section	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR04 283850	XAR06 283851	XSMPB20 288997	XPSS2006 284178	
122308 *	122083 *	122097 *	122111 *					
XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR04 283850	XAR06 283851	XSMPB20 288997	XPSS2006 284178	
122308 *	122083 *	122097 *	122111 *					
XSPBM0808 284294	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR06 283851	XAR08 283852	XSMPB20 288997	XPSS2008 284179	
122309 *	122084 *	122098 *	122112 *					
XSPBM0808 284294	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR06 283851	XAR08 283852	XSMPB20 288997	XPSS2008 284179	
122309 *	122084 *	122098 *	122112 *					

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

Components Box-Solution



xEnergy Switchboards

Accessories

Fitting kits, Vertical profiles



VT00509, VT19809



VT10109

Section depth mm	Fitting kits box solution suitable for 400/600mm module width depth = 275 mm Form 4 Article No. per unit unit = 1 set	Fitting kits box solution suitable for 400/600mm module width depth = 475 mm Form 4 Article No. per unit unit = 1 set	Fitting kits box solution suitable for 400/600mm module width depth = 275 mm without cable area Form 4 Article No. per unit unit = 1 set	Fitting kits box solution suitable for 400/600mm module width depth = 475 mm without cable area Form 4 Article No. per unit unit = 1 set	Vertical profiles for box solution, only 1 post Article No. per unit unit = 1 pc.
600	XSMFDB0606-BS 125829 125971 *	-	XSMFDB0606-BS-2 168934	-	XSFH20-1 109254 122585 *
800	XSMFDB0608-BS 125970 125972 *	XSMFDB0608-BS-350 168936	-	XSMFDB0608-2-350 168935	

Accessories for Outgoing Sections: Partitions for Internal Separation



VT25109



wa_vt58013



wa_vt71913



wa_vt57913

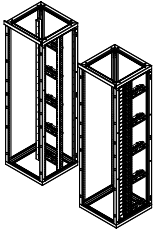
Section depth mm	Form 2/4 Partition connection area/dropper bar area Article No. per unit unit = 1 set	Module width mm	Form 4 Partition switchgear area/switchgear area Article No. per unit unit = 1 set	Section width mm	Form 2/4 Connection area/dropper bar area in the widths of 200/400/600 Article No. per unit unit = 1 set	Form 4 Closing strip switchgear a./connection area L = 650 mm Article No. per unit unit = 1 set
600	XPFCD2006 284132	425	XPFMM04 284147	800	XPFCB02 284745	XPFCM 284146
800	XPFCD2008 284133	600	XPFMM06 284148	1000	XPFCB04 284119	-
	-		-	1200	XPFCB06 284746	-

Note

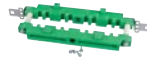
* Finish in special RAL colour

xEnergy Switchboards

Dropper Bars up to 1600 A for Outgoing Sections, Fitting Kits



00123137_0



wa_vt58813



wa_vt58913

Angle bracket for N and PEN in the cable connection area



wa_vt69913



wa_vt70013

I_e

Busbar cross-sections

A

L1, L2, L3, full N
mm²

PE, PEN
mm²

Type of busbar support

3 poles L1, L2, L3, or 4 poles L1, L2, L3, N

Article No. per unit

End support at the bottom

Article No. per unit

Type of support for conductor in connection area¹⁾
PE or PEN

N+PEN

Article No. per unit

Article No. per unit

Dropper bars on the side, center-to-center phase distance 60 mm

Module width	Busbar cross-sections	PE, PEN cross-sections	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
800	2 x 20 x 10	1 x 20 x 10	XDSF08 283888	XDSF08E 283889	XDSFP 283895	XDSFN 283894
1250	2 x 40 x 10	1 x 40 x 10	XDSF12 283890	XDSF12E 283891	XDSFP 283895	XDSFN 283894
1600	2 x 60 x 10	1 x 60 x 10	XDSF16 283892	XDSF16E 283893	XDSFP 283895	XDSFN 283894



wa_vt59013



VT00412

Module width

Type
Extension bracket for busbar support XDSF... for rear-mounted dropper bars

Type
Extension bracket for busbar support (strong design for lowest position)

mm

Article No. per unit

425

not required

-

600

XDB06
283885

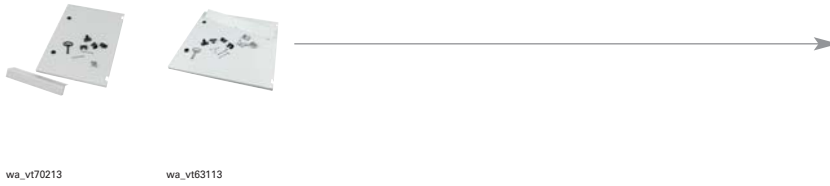
XADB06E
166745

Note

¹⁾ Also suitable for mounting cable ducts, auxiliary busbars etc.

xEnergy Switchboards

Accessories for Outgoing Sections: Doors for Box Solution (Doors to Switchgear Area, Section with Cable Area)



Width mm	H = 200 mm	H = 300 mm	H = 350 mm	H = 400 mm	H = 500 mm	H = 600 mm	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	XSDFMC0204 109240	XSDFMC0304 109241	XSDFMC0304-1 109242	XSDFMC0404 109243	XSDFMC0504 109244	XSDFMC0604 109245	
	122573 *	122574 *	122575 *	122576 *	122577 *	122578 *	
600	XSDFMC0206 109246	XSDFMC0306 109247	XSDFMC0306-1 109248	XSDFMC0406 109249	XSDFMC0506 109250	XSDFMC0606 109251	
	122579 *	122580 *	122581 *	122582 *	122583 *	122584 *	

Accessories for Outgoing Sections: Doors for Box Solution (Section with Cable Area)

Width mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm	H = 500 mm	H = 600 mm	H = 800 mm	H = 975 mm	H = 1000 mm	H = 1200 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
600	XSDBSC0206 167537	XSDBSC02506 171680	XSDBSC0306 167538	XSDBSC03506 167539	XSDBSC0406 1677540	XSDBSC0506 167541	XSDBSC0606 167542	XSDBSC0806 171681	XSDBSC097506 171682	XSDBSC1006 171683	XSDBSC1206 171684
	167543 *	171707 *	167544 *	167545 *	167546 *	167547 *	167548 *	171708 *	171709 *	171710 *	171711 *
800	XSDBSC0208 171686	XSDBSC02508 171687	XSDBSC0308 171688	XSDBSC03508 171689	XSDBSC0408 171690	XSDBSC0508 171691	XSDBSC0608 171692	XSDBSC0808 171693	XSDBSC097508 171694	XSDBSC1008 171695	XSDBSC1208 171696
	171713 *	171714 *	171715 *	171716 *	171717 *	171718 *	171719 *	171720 *	171721 *	171722 *	171723 *

xEnergy Switchboards

Accessories for Outgoing Sections: Snap-on Cover without Cut-out for Box Solution, Section with Cable Area



VT00709

Width mm	H = 150 mm	H = 250 mm	
	Article No. per unit	Article No. per unit	
425	XMC0604-BS 125983	XMC1004-BS 125984	
	125987 *	125988 *	
600	XMC0606-BS 125985	XMC1006-BS 125986	
	125989 *	125990 *	

Accessories for Outgoing Sections: Snap-on Cover without Cut-out for Box Solution, Section without Cable Area



VT00709

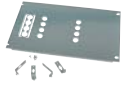
Width mm	H = 150 mm	
	Article No. per unit	
600	XSDC01506 171679	
	171706 *	
800	XSDC01508 171685	
	171712 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for Box Solution



VT00909

Width mm	NZM1 3+4 poles H = 200 mm horizontal	NZM2 3 poles H = 200 mm horizontal	NZM2 4 poles H = 300 mm fixed/withdraw. horizontal	NZM3 H = 600 mm 3+4 poles, vertical fixed 3 poles, vertical fixed, plug-in and withdrawable	NZM3 3+4 poles H = 600 mm fixed, withdrawable and plug-in horizontal	NZM3 3+4 poles H = 300 mm fixed and plug-in horizontal	NZM3 3+4 poles H = 500 mm withdrawable horizontal
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XMN130804M-BS 125973	XMN230804M-BS 125974	XMN241204M-BS 125975	XMN342404M-BS 125976	-	-	-
600	XMN130806M-BS 125977	XMN230806M-BS 125978	XMN241206M-BS 125979	-	XMN342406M-BS 125982	XMN341206M-F-BS 125980	XMN342006M-W-BS 125981

Accessories for Outgoing Sections: Mounting Plates - without Drill-holes for Box-Solution

Incl. fastening material.



wa_v133513

Width mm	H = 200 mm	H = 300 mm	H = 350 mm	H = 400 mm	H = 600 mm	
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
600	XME0806M 283945	XME1206M 285686	XME1406M-1 110339	XME1606M 283951	XME2406M 285687	

xEnergy Switchboards

Accessories for 5000A application with a section depth of 1000mm

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

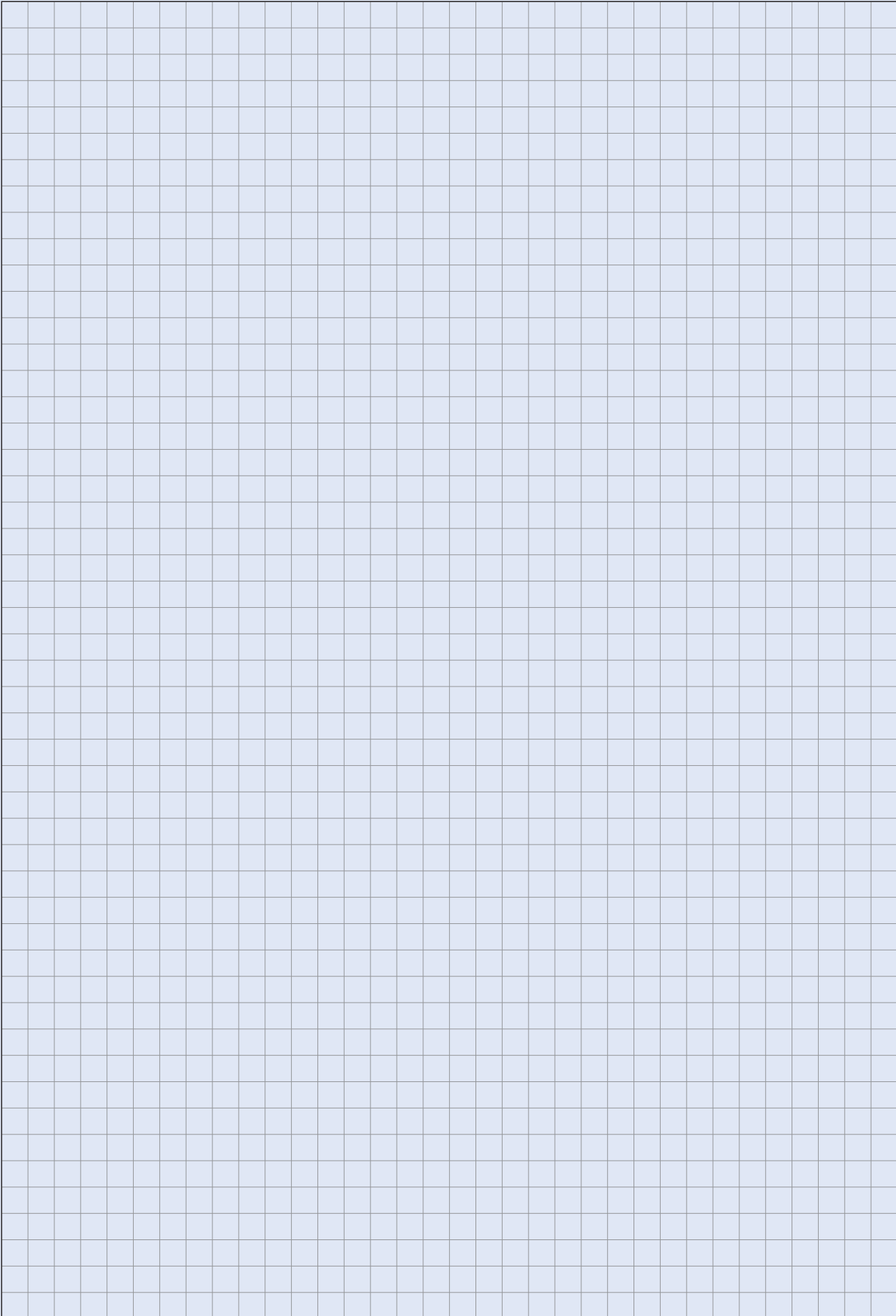


VT01611

Section width mm	Switchgear area width mm	Cable connect. area width mm	Box-Solution	Article No. per unit unit = 1 set	For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.
800	425	372	XPFBCB372	158607	
	600	197	XPFBCB197	158608	
1000	600	397	XPFBCB397	158609	
1200	600	597	XPFBCB597	158610	

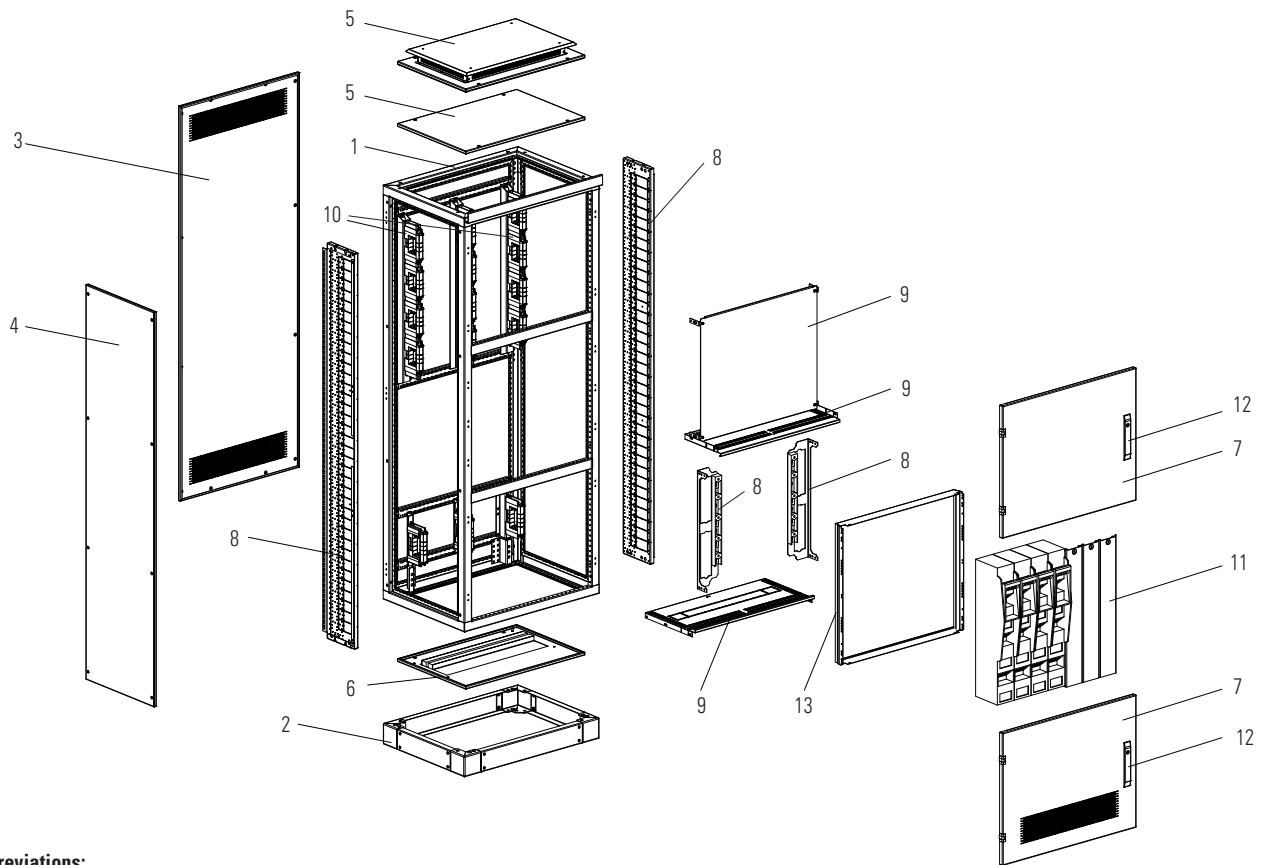
xEnergy Switchboards

Notes



Outgoing Section for Fuse Switch Disconnectors - SL

Katalog 4-1-SL



Abbreviations:

EVEN Main busbars and connection area are on the same side
 OPPO Main busbars and connection area are opposite each other
 UK 3P&N (for UK market)

- | | |
|----|--------------------------------|
| 1 | Frame |
| 2 | Plinth |
| 3 | Rear panel |
| 4 | Side panel |
| 5 | Top panel |
| 6 | Bottom panel |
| 7 | Door |
| 8 | Fitting kit for SL fuse strips |
| 9 | Separation panels |
| 10 | Main busbar support |
| 11 | Empty space cover |
| 12 | Lock mechanism |
| 13 | Cover frame |

Features

- Widths of 600/800/1000 mm
- Vertical position of fuse strips
- Form 3
- IP31/IP55
- Operation from outside or behind the door
- Outgoers are possible up and downwards

Notes

Frame comes with a blue design strip.
 Doors include locking system for 3 mm two-way key bit.
 Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures. You can use fuse strips from: Eaton, Jean-Müller, M.Schneider, Wöhner, Pronotec.
 For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durystone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Outgoing sections for vertical SL fuse strips in Form 3, Main Busbars rear-mounted (HSS)

Form 3



VT18510, wa_vt75213



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



VT20209

Section depth mm	Section width mm	Switchgear area width suitable for carrying equipment mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for bar support Article No. per unit	Support for main busbar Article No. per unit	Busbar support for PEN Article No. per unit	Fitting kit for SL fuse strips Article No. per unit
600	600	500	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMLV 144583 144584 *
		700	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMLV 144583 144584 *
	900	XSFB1006 284241 122284 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMLV 144583 144584 *	
800	600	500	XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMLV 144583 144584 *
		700	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMLV 144583 144584 *
	900	XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMLV 144583 144584 *	

Note

* Finish in special RAL colour



wa_vt74413 VT21209 wa_vt63313 wa_vt65313 wa_vt65413 wa_vt65513 wa_vt71113 wa_vt34213 wa_vt65013

Cover frame	Partitions separation panels	Partitions separation panels for EVEN connection	Door to switch-gear area (1-third-door) up to IP55 closed	Door to switch gear area up to IP31 ventilated right	Door to switch gear area up to IP31 ventilated left	Door to switch gear area as high as section up to IP55 closed	Door to switch gear area as high as section up to IP31 ventil., right	Door to switch gear area as high as section up to IP31 ventil., left
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMLV-I-CH06 134419 134555 *	XPL06 284161	XPLB0606 116456	XSDMC0606 284195 122241 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *	XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *
XSMLV-I-CH08 134420 134556 *	XPL08 284162	XPLB0806 116457	XSDMC0608 284196 122242 *	XSDMRV0608 284216 122262 *	XSDMLV0608 284207 122253 *	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *
XSMLV-I-CH10 134421 134557 *	XPL10 285500	XPLB1006 116458	XSDMC0610 285506 122374 *	XSDMRV0610 285508 122376 *	XSDMLV0610 285507 122375 *	XSDMC2010 284201 122247 *	XSDMRV2010 284221 122267 *	XSDMLV2010 284212 122258 *
XSMLV-I-CH06 134419 134555 *	XPL0608 126006	XPLB0608 124415	XSDMC0606 284195 122241 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *	XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *
XSMLV-I-CH08 134420 134556 *	XPL0808 126007	XPLB0808 124416	XSDMC0608 284196 122242 *	XSDMRV0608 284216 122262 *	XSDMLV0608 284207 122253 *	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *
XSMLV-I-CH10 134421 134557 *	XPL1008 126008	XPLB1008 124417	XSDMC0610 285506 122374 *	XSDMRV0610 285508 122376 *	XSDMLV0610 285507 122375 *	XSDMC2010 284201 122247 *	XSDMRV2010 284221 122267 *	XSDMLV2010 284212 122258 *

Note

* Finish in special RAL colour



Door to switch gear area as high as section up to IP55 transparent Article No. per unit	Crosspiece for snap-on cover (only necessary with doors as high as s.) Article No. per unit	Rear panel up to IP31 ventilated Article No. per unit	Rear panel up to IP55 closed Article No. per unit	Side panel up to IP55 Article No. per unit	Cover plate up to IP55 closed Article No. per unit	Cover plate up to IP55 for flanges Article No. per unit	Cover plate in several p. up to IP31 ¹⁾ Article No. per unit	Cover plate up to IP31 ventilated Article No. per unit
XSDMD2006 284204 122250 *	XSFD0606 113992 122619 *	XSWV2006 284361 122352 *	XSWC2006 284356 122347 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *	XSPTF0606 284320 122335 *	XSPBM0606 284290 122305 *	XAD0606 283488 122080 *
XSDMD2008 284701 122358 *	XSFD0608 113993 122620 *	XSWV2008 284362 122353 *	XSWC2008 284357 122348 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083
-	XSFD0610 113994 122621 *	XSWV2010 284363 122354 *	XSWC2010 284358 122349 *	XAW2006 283857 122119 *	XSPTC1006 284311 122326 *	XSPTF1006 284326 122341 *	XSPBM1006 104529 122421 *	XAD1006 283814 122086 *
XSDMD2006 284204 122250 *	XSFD0606 113992 122619 *	XSWV2006 284361 122352 *	XSWC2006 284356 122347 *	XAW2008 283858 122120 *	XSPTC0608 284306 122321 *	XSPTF0608 284321 122336 *	XSPBM0608 284291 122306 *	XAD0608 283489 122081 *
XSDMD2008 284701 122358 *	XSFD0608 113993 122620 *	XSWV2008 284362 122353 *	XSWC2008 284357 122348 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *	XSPTF0808 284324 122339 *	XSPBM0808 284294 122309 *	XAD0808 283812 122084 *
-	XSFD0610 113994 122621 *	XSWV2010 284363 122354 *	XSWC2010 284358 122349 *	XAW2008 283858 122120 *	XSPTC1008 284312 122327 *	XSPTF1008 284327 122342 *	XSPBM1008 104530 122422 *	XAD1008 283815 122087 *

Note

* Finish in special RAL colour

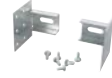
¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.



VT08106



wa_vt15013



wa_vt58313



VT07906

Base plinth 100 mm	Base plinth 200 mm	Cable strain relief rails	Fixing brackets for cable strain relief rail	Separation p. between section/section	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	XPSS2006 284178	
122094 *	122108 *				
XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	XPSS2006 284178	
122097 *	122111 *				
XAP011006 283832	XAP021006 283846	XAR10 283853	XNBW-R2 106740	XPSS2006 284178	
122100 *	122114 *				
XAP010608 283827	XAP020608 283841	XAR06 283851	XNBW-R2 106740	XPSS2008 284179	
122095 *	122109 *				
XAP010808 283830	XAP020808 283844	XAR08 283852	XNBW-R2 106740	XPSS2008 284179	
122098 *	122112 *				
XAP011008 283833	XAP021008 283847	XAR10 283853	XNBW-R2 106740	XPSS2008 284179	
122101 *	122115 *				

Components



xEnergy Switchboards

Accessories

Fitting kits, Blind frame kits



VT20209



wa_vt74413

Section width mm	Fitting kits for SL fuse strips suitable for all section widths (600/800/1000) Article No. per unit	Blind frame kits for SL-sections suitable for fitting kits XSMLV Article No. per unit
600	XSMLV 144583 144584 *	XSMLV-I-CH06 143419 143555 *
800	XSMLV 144583 144584 *	XSMLV-I-CH08 143420 143556 *
1000	XSMLV 144583 144584 *	XSMLV-I-CH10 143421 143557 *

Accessories for outgoing sections SL



VT21209



wa_vt63313



VT08506



VT08606



VT34210

Width mm	For SL section section depth 600 mm Article No. per unit unit = 1 set	For SL section section depth 800 mm Article No. per unit unit = 1 set	For SL section and SSL section vertical instal. section depth 600 mm with EVEN type of connection Article No. per unit unit = 1 set	For SL section and SSL section vertical instal. section depth 800 mm with EVEN type of connection Article No. per unit unit = 1 set	Empty-space covers suitable for all strips Types/ manufacturer B = 50 mm Article No. per unit unit = 1 set	Empty-space covers suitable for all strips Types/ manufacturer B = 100 mm Article No. per unit unit = 1 set	Cover profile in addition to SL empty-space cover (to close the gap between dropper bar and blind cover) Article No. per unit unit = 1 m
600	XPL-06 284161	XPL0608 126006	XPLB0606 116456	XPLB0608 124415	XME0602CL 289904	XME0604CL 289905	XPLSTB-1000 150540
800	XPL-08 284162	XPL0808 126007	XPLB0806 116457	XPLB0808 124416	XME0602CL 289904	XME0604CL 289905	XPLSTB-1000 150540
1000	XPL-10 285500	XPL1008 126008	XPLB1006 116458	XPLB1008 124417	XME0602CL 289904	XME0604CL 289905	XPLSTB-1000 150540

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for 5000A application with a section depth of 1000mm

Additional partition for 5000A systems

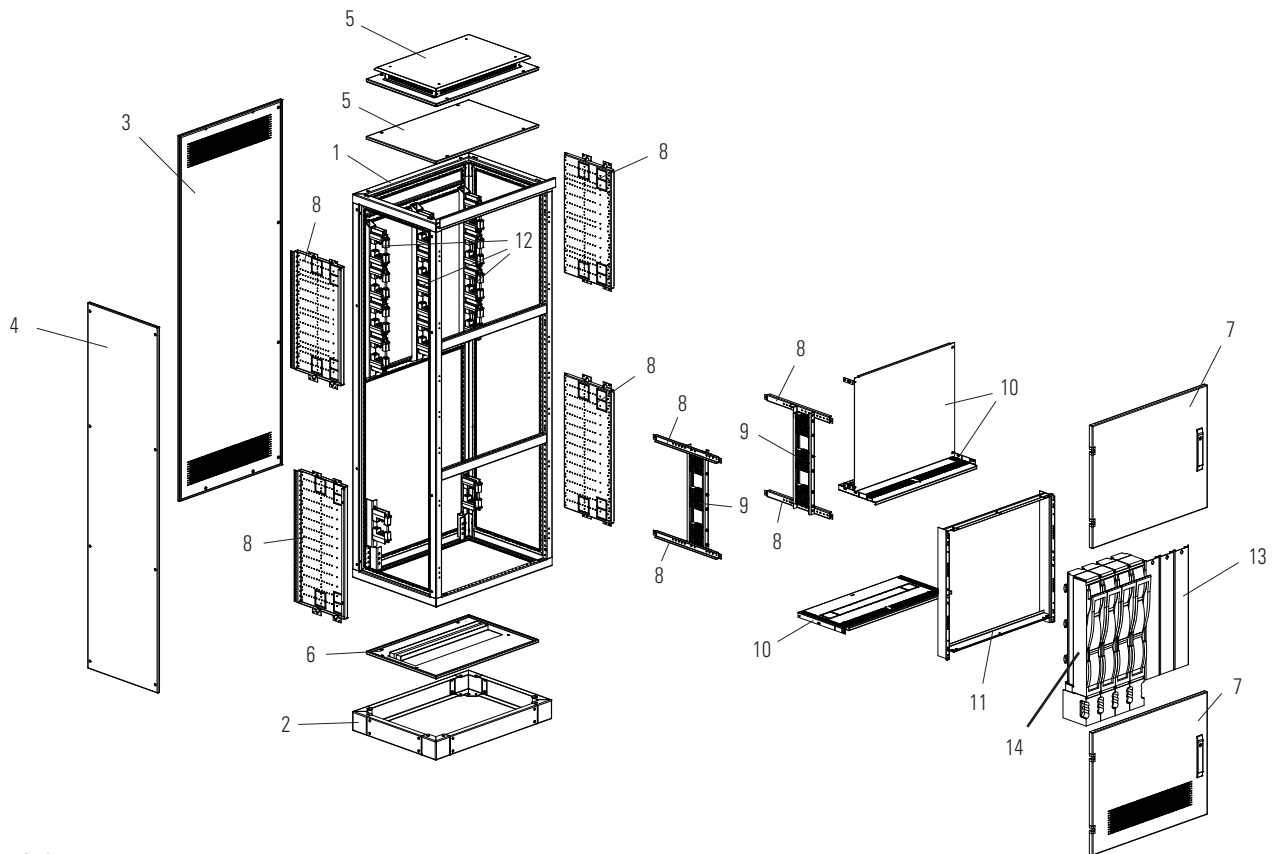


wa_v71313

Section width mm	Partition extension for 5000A systems Busbar area/ Main busbar area	
	Article No. per unit unit = 1 pc.	
600	XPIBCB-H-06019 150515	
800	XPIBCB-H-08019 150516	
1000	XPIBCB-H-10019 150518	

Outgoing section for fuse switch disconnectors with dropper bar suitable for uninterrupted busbar trunking - SL-I

XSMVLV-I_exposi



Abbreviations:

EVEN Main busbars and connection area are on the same side
 OPPO Main busbars and connection area are opposite each other
 UK 3P&N (for UK market)

- | | |
|----|--------------------------------|
| 1 | Frame |
| 2 | Plinth |
| 3 | Rear panel |
| 4 | Side panel |
| 5 | Top panel |
| 6 | Bottom panel |
| 7 | Door |
| 8 | Fitting kit for SL fuse strips |
| 9 | Carrier for dropper bar |
| 10 | Separation/partition panels |
| 11 | Cover frame for top and bottom |
| 12 | Carrier for main busbar |
| 13 | Empty space cover |
| 14 | SL fuse strips |

Features

- Widths of 600/800/1000 mm
- Vertical position of fuse strips
- Form 3
- IP31/IP55
- Operation from outside or behind the door
- Outgoers are possible up and downwards

Notes

Frame comes with a blue design strip.
 Doors include locking system for 3 mm two-way key bit.
 Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures. You can use fuse strips from: Eaton, Jean-Müller, M.Schneider, Wöhner, Pronotec.
 For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durystone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Outgoing sections for vertical SL fuse strips in Form 3, Main Busbars rear-mounted (HSS) dropper bar suitable for uninterrupted busbar trunking (section - section) up to 3200 A

Form 3



VT18510, wa_vt75213



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



wa_vt74313



VT04710

Section depth mm	Section width mm	Switchgear area width suitable for carrying equipment mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for bar support Article No. per unit	Support for main busbar Article No. per unit	Bar support for PEN Article No. per unit	Carrier for dropper bar Article No. per unit	Fitting kit for SL fuse strips Article No. per unit
600	600	500	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	see page xx	XSMLV-I 143418 143554 *
	800	700	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	see page xx	XSMLV-I 143418 143554 *
	1000	900	XSFB1006 284241 122284 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	see page xx	XSMLV-I 143418 143554 *
800	600	500	XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	see page xx	XSMLV-I 143418 143554 *
	800	700	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	see page xx	XSMLV-I 143418 143554 *
	1000	900	XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	see page xx	XSMLV-I 143418 143554 *

Note

* Finish in special RAL colour



wa_vt74413 VT21209 wa_vt63313 wa_vt65313 wa_vt65413 wa_vt65513 wa_vt71113 wa_vt34213 wa_vt65013

Cover frame (dependent from section width)	Partitions separation panels	Partitions separation panels for EVEN connection	Door to switch gear area (1-third-door) up to IP55 closed	Door to switch gear area up to IP31 ventilated right	Door to switch gear area up to IP31 ventilated left	Door to switch gear area as high as section up to IP55 closed	Door to switch gear area as high as section up to IP31 ventil., right	Door to switch gear area as high as section up to IP31 ventil., left
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMLV-I-CH06 134419	XPL06 284161	XPLB0606 116456	XSDMC0606 284195	XSDMRV0606 284215	XSDMLV0606 284206	XSDMC2006 284199	XSDMRV2006 284219	XSDMLV2006 284210
134555 *			122241 *	122261 *	122252 *	122245 *	122265 *	122256 *
XSMLV-I-CH08 134420	XPL08 284162	XPLB0806 116457	XSDMC0608 284196	XSDMRV0608 284216	XSDMLV0608 284207	XSDMC2008 284200	XSDMRV2008 284220	XSDMLV2008 284211
134556 *			122242 *	122262 *	122253 *	122246 *	122266 *	122257 *
XSMLV-I-CH10 134421	XPL10 285500	XPLB1006 116458	XSDMC0610 285506	XSDMRV0610 285508	XSDMLV0610 285507	XSDMC2010 284201	XSDMRV2010 284221	XSDMLV2010 284212
134557 *			122374 *	122376 *	122375 *	122247 *	122267 *	122258 *
XSMLV-I-CH06 134419	XPL0608 126006	XPLB0608 124415	XSDMC0606 284195	XSDMRV0606 284215	XSDMLV0606 284206	XSDMC2006 284199	XSDMRV2006 284219	XSDMLV2006 284210
134555 *			122241 *	122261 *	122252 *	122245 *	122265 *	122256 *
XSMLV-I-CH08 134420	XPL0808 126007	XPLB0808 124416	XSDMC0608 284196	XSDMRV0608 284216	XSDMLV0608 284207	XSDMC2008 284200	XSDMRV2008 284220	XSDMLV2008 284211
134556 *			122242 *	122262 *	122253 *	122246 *	122266 *	122257 *
XSMLV-I-CH10 134421	XPL1008 126008	XPLB1008 124417	XSDMC0610 285506	XSDMRV0610 285508	XSDMLV0610 285507	XSDMC2010 284201	XSDMRV2010 284221	XSDMLV2010 284212
134557 *			122374 *	122376 *	122375 *	122247 *	122267 *	122258 *

Note

* Finish in special RAL colour



Door to switch gear area as high as section up to IP55 transparent Article No. per unit	Crosspiece for snap-on cover (only necessary with doors as high as s. Article No. per unit	Rear panel up to IP31 ventilated Article No. per unit	Rear panel up to IP55 closed Article No. per unit	Side panel up to IP55 Article No. per unit	Cover plate up to IP55 closed Article No. per unit	Cover plate up to IP55 for flanges Article No. per unit	Cover plate in several p. up to IP31 ¹⁾ Article No. per unit	Cover plate up to IP31 ventilated Article No. per unit
XSDMD2006 284204 122250 *	XSFD0606 113992 122619 *	XSWV2006 284361 122352 *	XSWC2006 284356 122347 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *	XSPTF0606 284320 122335 *	XSPBM0606 284290 122305 *	XAD0606 283488 122080 *
XSDMD2008 284701 122358 *	XSFD0608 113993 122620 *	XSWV2008 284362 122353 *	XSWC2008 284357 122348 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083
-	XSFD0610 113994 122621 *	XSWV2010 284363 122354 *	XSWC2010 284358 122349 *	XAW2006 283857 122119 *	XSPTC1006 284311 122326 *	XSPTF1006 284326 122341 *	XSPBM1006 104529 122421 *	XAD1006 283814 122086 *
XSDMD2006 284204 122250 *	XSFD0606 113992 122619 *	XSWV2006 284361 122352 *	XSWC2006 284356 122347 *	XAW2008 283858 122120 *	XSPTC0608 284306 122321 *	XSPTF0608 284321 122336 *	XSPBM0608 284291 122306 *	XAD0608 283489 122081 *
XSDMD2008 284701 122358 *	XSFD0608 113993 122620 *	XSWV2008 284362 122353 *	XSWC2008 284357 122348 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *	XSPTF0808 284324 122339 *	XSPBM0808 284294 122309 *	XAD0808 283812 122084 *
-	XSFD0610 113994 122621 *	XSWV2010 284363 122354 *	XSWC2010 284358 122349 *	XAW2008 283858 122120 *	XSPTC1008 284312 122327 *	XSPTF1008 284327 122342 *	XSPBM1008 104530 122422 *	XAD1008 283815 122087 *

Note

* Finish in special RAL colour

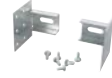
¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to ensure the appropriate degree of protection through additional measures.



VT08106



wa_vt15013



wa_vt58313



VT07906

Base plinth 100 mm	Base plinth 200 mm	Cable strain relief rails	Fixing brackets for cable strain relief rail	Separation p. between section/section	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	XPSS2006 284178	
122094 *	122108 *				
XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	XPSS2006 284178	
122097 *	122111 *				
XAP011006 283832	XAP021006 283846	XAR10 283853	XNBW-R2 106740	XPSS2006 284178	
122100 *	122114 *				
XAP010608 283827	XAP020608 283841	XAR06 283851	XNBW-R2 106740	XPSS2008 284179	
122095 *	122109 *				
XAP010808 283830	XAP020808 283844	XAR08 283852	XNBW-R2 106740	XPSS2008 284179	
122098 *	122112 *				
XAP011008 283833	XAP021008 283847	XAR10 283853	XNBW-R2 106740	XPSS2008 284179	
122101 *	122115 *				

Components



xEnergy Switchboards

Accessories

Fitting kits for fuse strips - SL-I (across several sections), Blind frame kits



VT20209



wa_vt74413

Section width mm	Fitting kits for SL-I fuse strips suitable for all section widths (600/800/1000) Article No. per unit	Blind frame kits for SL-I sections suitable for fitting kits XSMLV-I Article No. per unit
600	XSMLV-I 143418 143554 *	XSMLV-I-CH06 143419 143555 *
800	XSMLV-I 143418 143554 *	XSMLV-I-CH08 143420 143556 *
1000	XSMLV-I 143418 143554 *	XSMLV-I-CH10 143421 143557 *

Accessories for outgoing sections: Separation panels



VT21209



wa_vt63313



VT08506



VT08606



VT34210

Width mm	For SL-I section section depth 600 mm Article No. per unit unit = 1 set	For SL-I section section depth 800 mm Article No. per unit unit = 1 set	For SL-I section vertical install. section depth 600 mm with EVEN type of connection Article No. per unit unit = 1 set	For SL-I section vertical install. section depth 800 mm with EVEN type of connection Article No. per unit unit = 1 set	Empty-space covers suitable for all strip types/manufacturers B = 50 mm Article No. per unit unit = 1 set	Empty-space covers suitable for all strip types/manufacturers B = 100 mm Article No. per unit unit = 1 set	Cover profile in addition to SL-I empty-space cover (to close the gap between dropper bar and blind cover) Article No. per unit unit = 1 m
600	XPL-06 284161	XPL0608 126006	XPLB0606 116456	XPLB0608 124415	XME0602CL 289904	XME0604CL 289905	XPLSTB-1000 150540
800	XPL-08 284162	XPL0808 126007	XPLB0806 116457	XPLB0808 124416	XME0602CL 289904	XME0604CL 289905	XPLSTB-1000 150540
1000	XPL-10 285500	XPL1008 126008	XPLB1006 116458	XPLB1008 124417	XME0602CL 289904	XME0604CL 289905	XPLSTB-1000 150540

Note

* Finish in special RAL colour

xEnergy Switchboards

Dropper Bars for SL-I-3200 A across several sections




wa_vt74313

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type
A	mm ²	mm ²	Article No. 1 set
1600	2 x 40 x 10	1 x 40 x 10	XDSF16-SL-I 143280
2000	2 x 60 x 10	1 x 60 x 10	XDSF20-SL-I 143281
2500	2 x 80 x 10	1 x 80 x 10	XDSF25-SL-I 143282
3200	2 x 100 x 10	1 x 100 x 10	XDSF32-SL-I 143283

Accessories: Fixing material for SL fuse strips

Hammer-head screw


Size mm	Type	Article No. per unit unit = 30 pcs.	
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VT28710

Hammer-head-screw - necessary for mounting the fuse switch disconnectors

12 x 66	XNHKS-12X66	144071
12 x 80	XNHKS-12X80	144072
12 x 100	XNHKS-12X100	144073
12 x 120	XNHKS-12X120	144074

Washer M12

Type	Article No. per unit unit = 30 pcs.	
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VT28810

Washer - necessary for fixing the hammer-head screw in the Cu-bar so as to make it easier to mount the fuse switch disconnectors

XNHS-M12	144075
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xEnergy Switchboards

Accessories for 5000A applications with a section depth of 1000mm

Additional partition for 5000A systems



wa_v71313

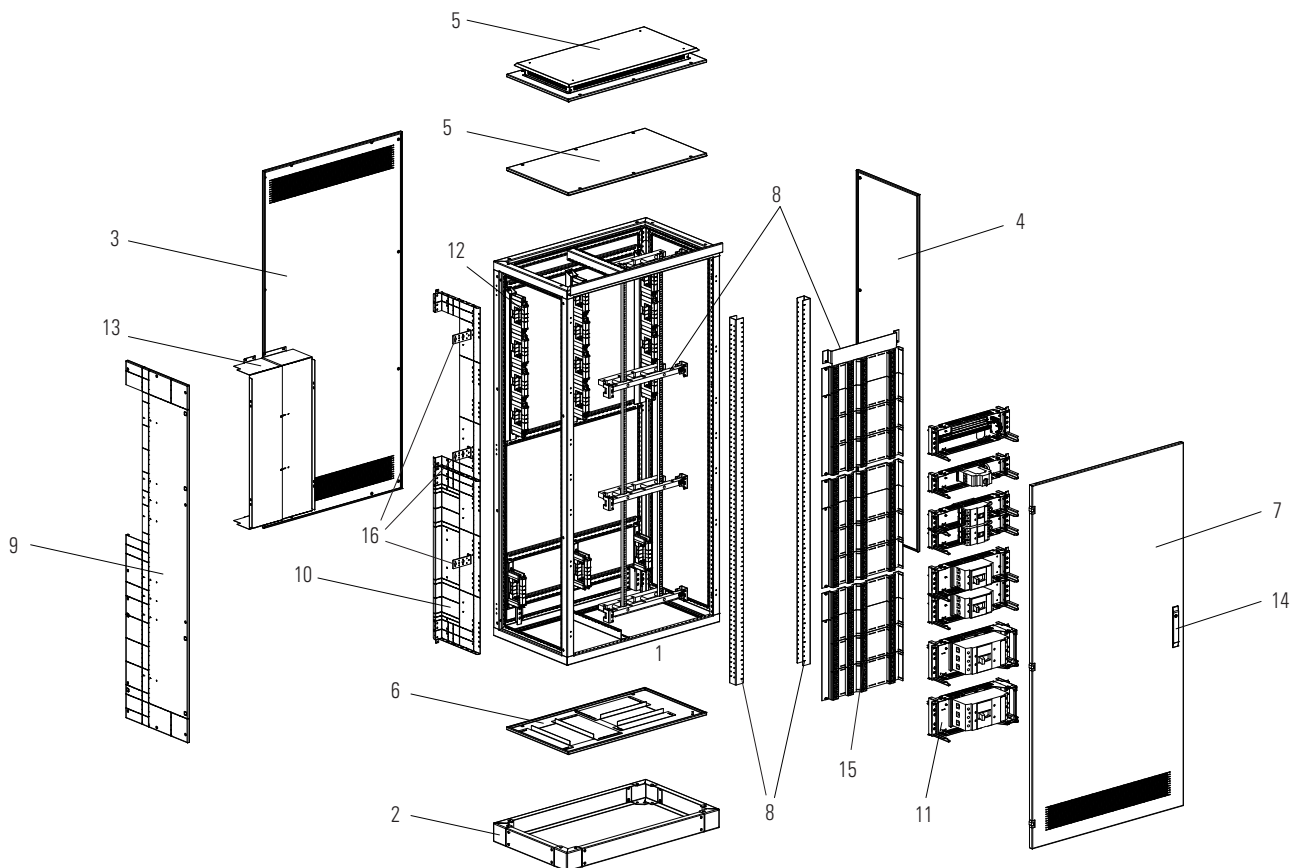
Section width mm	Partition extension for 5000A systems Busbar area/ Main busbar area	Article No. per unit unit = 1 pc.
600	XPIBCB-H-06019 150515	
800	XPIBCB-H-08019 150516	
1000	XPIBCB-H-10019 150518	

XR = Outgoing sections in removable design

Outgoing sections in removable plug-in design, Form 2	Page 179
Outgoing sections in removable plug-in design, Form 4	Page 191
Outgoing sections for switch-fuse units PIFT, vertical position	Page 201
Outgoing sections for switch-fuse units PIFT, horizontal position	Page 209

Plug-in Module Technology in Form 2

Katalog 3-1 PI-2b



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Fitting kit for plug-in module technology
- 9 Separation section/section
- 10 Separation panel dropper bar area/connection area
- 11 Modules for plug-in technology
- 12 Support for main busbar
- 13 Partition main busbar area/connect. area
- 14 Lock mechanism
- 15 Partition switchgear area/dropper bar area
- 16 Angle bracket for N and PEN dropper bar

Features

- Widths of 800/1000/1200 mm
- Module width 600 mm
- 3 or 4 poles
- IP31/IP55
- Consistently equal mounting height of switchgear
- Single-wing section door for widths of 800/1000 mm, double-wing door for 1200 mm
- Suitable for switchgear with remote operation
- To be operated behind the door
- Empty plug-in modules for the installation of FAZ, RCD, ...
- Dropper bars from 800 to 1600 A
- Separate setup in 2 separate sections is possible, e.g. in case of a 600 mm switchgear area/ 600 mm connection area

Notes

Frame comes with a blue design strip.
Doors include locking system for 3mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durostone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Plug-in Module Technology in Form 2

Form 2



VT18910



VT13310



VT10109



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wa_vt33413



VT27209



VT19909



VT25109

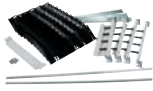


wa_vt71913

Section depth mm	Section width mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for bar support Article No. per unit	Support for main busbar Article No. per unit	Busbar support for PEN Article No. per unit	Fitting kit for outgoing breakers with circuit breaker in Form 2 Article No. per unit	Separation part for partition connection/dropper bar Article No. per unit	Partition connection area/main busbar Article No. per unit
600	800	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMFIB0606 284253	XPFCD2006-PI-2 126019	XPFCB02 284745
	1000	XSFB1006 284241 122284 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMFIB0606 284253	XPFCD2006-PI-2 126019	XPFCB04 284119
	1200	XSFB1206 284243 122286 *	XSFH20 284245 122288 *	XBBB12 283863	see page xx	XBSP 283872	XSMFIB0606 284253	XPFCD2006-PI-2 126019	XPFCB06 284746
800	800	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMFIB0608 284254	XPFCD2008-PI-2 126020	XPFCB02 284745
	1000	XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMFIB0608 284254	XPFCD2008-PI-2 126020	XPFCB04 284119
	1200	XSFB1208 284244 122287 *	XSFH20 284245 122288 *	XBBB12 283863	see page xx	XBSP 283872	XSMFIB0608 284254	XPFCD2008-PI-2 126020	XPFCB06 284746

Note

* Finish in special RAL colour



VT02409



wa_vt69913



wa_vt70013



wa_vt71113



wa_vt34213



wa_vt65013



wa_vt65113



wa_vt25213



wa_vt65613

Set of dropper bars	Angle bracket for PE or PEN in connection area	Angle bracket for N and PEN in connection area	Door to switchgear area up to IP55 closed	Door to switchgear a. up to IP31 ventilated right	Door to switchgear a. up to IP31 ventilated left	Door to switchgear a. up to IP55 transparent	Rear panel up to IP55 closed	Rear panel up to IP31 ventilated
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XDSFP 283895	XDSFN 283894	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *
see page xx	XDSFP 283895	XDSFN 283894	XSDMC2010 284201 122247 *	XSDMRV2010 284221 122267 *	XSDMLV2010 284212 122258 *	XSDMD2010	XSWC2010 284358 122349 *	XSWV2010 284363 122354 *
see page xx	XDSFP 283895	XDSFN 283894	XSDMC2012 284202 122248 *	XSDMRV2012 284222 122268 *	XSDMLV2012 284213 122259 *	-	XSWC2012 284359 122350 *	XSWV2012 284364 122355 *
see page xx	XDSFP 283895	XDSFN 283894	XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *
see page xx	XDSFP 283895	XDSFN 283894	XSDMC2010 284201 122247 *	XSDMRV2010 284221 122267 *	XSDMLV2010 284212 122258 *		XSWC2010 284358 122349 *	XSWV2010 284363 122354 *
see page xx	XDSFP 283895	XDSFN 283894	XSDMC2012 284202 122248 *	XSDMRV2012 284222 122268 *	XSDMLV2012 284213 122259 *	-	XSWC2012 284359 122350 *	XSWV2012 284364 122355 *

Note

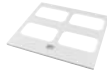
* Finish in special RAL colour



VT0706



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wa_vt25613



wa_vt25313



wa_vt08713



VT08106



wa_vt15013

Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate up to IP31 ¹⁾ in several parts	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rails 2 units in each section	Cable strain relief rails 3 units in each section
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XAW2006 283857	XSPTC0806 284308	XSPTF0806-XF 121442	XSPBM0806-1 104533	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR04 283850	XAR06 283851
122119 *	122323 *	122628 *	122425 *	122083 *	122097 *	122111 *		
XAW2006 283857	XSPTC1006 284311	XSPTF1006-XF 121444	XSPBM1006-1 284296	XAD1006 283814	XAP011006 283832	XAP021006 283846	XAR04 283850	XAR06 283851
122119 *	122326 *	122630 *	122311 *	122086 *	122100 *	122114 *		
XAW2006 283857	XSPTC1206 284314	XSPTF1206-XF 121446	XSPBM1206-1 284299	XAD1206 283816	XAP011206 283834	XAP021206 283848	XAR04 283850	XAR06 283851
122119 *	122329 *	122632 *	122314 *	122088 *	122102 *	122116 *		
XAW2008 283858	XSPTC0808 284309	XSPTF0808-XF 121443	XSPBM0808-1 104534	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR06 283851	XAR08 283852
122120 *	122324 *	122629 *	122426 *	122084 *	122098 *	122112 *		
XAW2008 283858	XSPTC1008 284312	XSPTF1008-XF 121445	XSPBM1008-1 284297	XAD1008 283815	XAP011008 283833	XAP021008 283847	XAR06 283851	XAR08 283852
122120 *	122327 *	122631 *	122312 *	122087 *	122101 *	122115 *		
XAW2008 283858	XSPTC1208 284315	XSPTF1208-XF 121447	XSPBM1208-1 284300	XAD1208 283817	XAP011208 283835	XAP021208 283849	XAR06 283851	XAR08 283852
122120 *	122330 *	122633 *	122315 *	122089 *	122103 *	122117 *		

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.



VT25009



VT07906

Universal profile for various mounting units	Separation p. section/section
Article No. per unit	Article No. per unit
XSMPB20 288997	XPSS2006 284178
XSMPB20 288997	XPSS2006 284178
XSMPB20 288997	XPSS2006 284178
XSMPB20 288997	XPSS2008 284179
XSMPB20 288997	XPSS2008 284179
XSMPB20 288997	XPSS2008 284179

xEnergy Switchboards

Accessories

Fitting kits for plug-in module technology - Form 2



VT19909

Section depth mm	Fitting kits for LS outg. sect. in plug-in module t. module width 600 mm Form 2 Article No. per unit
600	XSMFIB0606 284253
800	XSMFIB0608 284254

Accessories for outgoing sections: Partitions for internal separation



VT25109



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Section depth mm	Form 2 Partition connection area/dropper bar area Article No. per unit unit = 1 set	Section width mm	Form 2 Connection area/dropper bar area in the widths of 200/400/600 Article No. per unit unit = 1 set
600	XPFC2006-PI-2 126019	800	XPFCB02 284745
800	XPFC2008-PI-2 126020	1000	XPFCB04 284119
-	-	1200	XPFCB06 284746

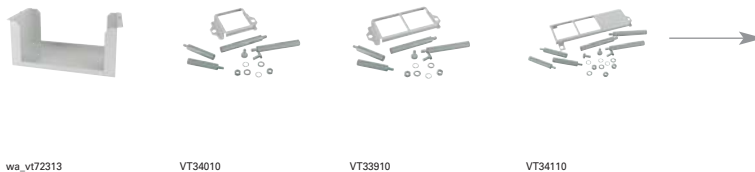
xEnergy Switchboards

Accessories for Outgoing Sections: Plug-in Module Technology, Form 2



Poles	Drawer-unit module NZM1 incl. connection cable and mounting bracket Article No. per unit unit = 1 set	Drawer-unit module NZM2 incl. rear connection and mounting bracket Article No. per unit unit = 1 set	Drawer-unit module NZM3 incl. rear connection and mounting bracket Article No. per unit unit = 1 set	Drawer-unit module PKZ0, PKZ2, PKZ4 incl. connection cable and mounting bracket Article No. per unit unit = 1 set	Empty drawer-unit module with DIN-rail incl. connection cable and mounting bracket H = 150 mm Article No. per unit unit = 1 set	Empty drawer-unit module with DIN-rail incl. connection cable and mounting bracket H = 250 mm Article No. per unit unit = 1 set
3 poles	XMN130406-PI-2 122030	XMN230606-PI-2 122031	XMN330806-PI-2 122032	XMP430406-PI-2 122037	-	-
4 poles	XMN140606-PI-2 122033	XMN240806-PI-2 122034	XMN341006-PI-2 122035	-	XMMC0606-PI-2 122038	XMMC1006-PI-2 122036

Accessories for Outgoing Sections: Accessories for Plug-in Module Technology



	Mounting element for plug-in module techn. Article No. per unit unit = 1 set	Fixing adapter for signalling devices H = 100 mm incl. fastening material Article No. per unit unit = 1 set	Fixing adapter for signalling devices H = 150 mm incl. fastening material Article No. per unit unit = 1 set	Fixing adapter for signalling devices H = 200 mm incl. fastening material Article No. per unit unit = 1 set	Fixing adapter for signalling devices H = 250 mm incl. fastening material Article No. per unit unit = 1 set
	XGAF-PI 126018	XMNA04-PI 126880	XMNA06-PI 126881	XMNA08-PI 126882	XMNA10-PI 126883

xEnergy Switchboards

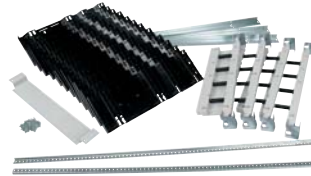
Accessories for Outgoing Sections: Accessories for Plug-in Module Technology



VT33810

Poles	Set of spacer brackets for NZM3 plug-in Form 2 (for raising the switch-gear position so as to allow the installation of a Pfiffner converter) Article No. per unit unit = 1 set	
3 pole	XMN33-SBS-PI 141902	
4 pole	XMN34-SBS-PI 141903	

Set of Dropper Bars for Plug-in Module Technology in Form 2

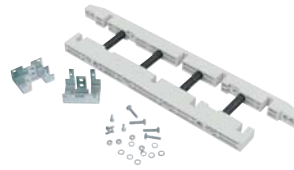


VT02409

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type	set = droppers bar carrier	
A	mm ²	mm ²	Fitting kit, dropper bars 3 poles L1, L2, L3	shutter U-profile, H = 2023 mm sheet steel partition (bracket) plastic bracket (partition) fastening material	- 4 pcs. - 12 pcs. - 2 pcs. - 3 pcs. - 1 pc. - 1 set
Form 2			Article No.		
800	1 x 40 x 10	1 x 20 x 10	1 set		XDSF08-PI-2 122017
1000	1 x 60 x 10	1 x 40 x 10			XDSF10-PI-2 122018
1200	1 x 80 x 10	1 x 40 x 10			XDSF12-PI-2 122019
1600	1 x 100 x 10	1 x 60 x 10			XDSF16-PI-2 122020

xEnergy Switchboards

Extension Set for Dropper Bars, Suitable for Form 2/4



wa_vt63413

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type Extension set for dropper bars 3+4 poles L1, L2, L3 Article No. 1 set
A	mm ²	mm ²	
800	1 x 40 x 10	1 x 20 x 10	XDSF08-PI-E 122025
1000	1 x 60 x 10	1 x 40 x 10	XDSF10-PI-E 122026
1200	1 x 80 x 10	1 x 40 x 10	XDSF12-PI-E 122027
1600	1 x 100 x 10	1 x 60 x 10	XDSF16-PI-E 122028

Support Brackets for N and PEN in the Cable Connection Area



wa_vt69913



wa_vt70013

Type of support for conductor in connection area PE or PEN	N+PEN	
Article No. per unit	Article No. per unit	
XDSFP 283895	XDSFN 283894	
XDSFP 283895	XDSFN 283894	
XDSFP 283895	XDSFN 283894	

xEnergy Switchboards

Accessories for 5000A application with a section depth of 1000mm

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section



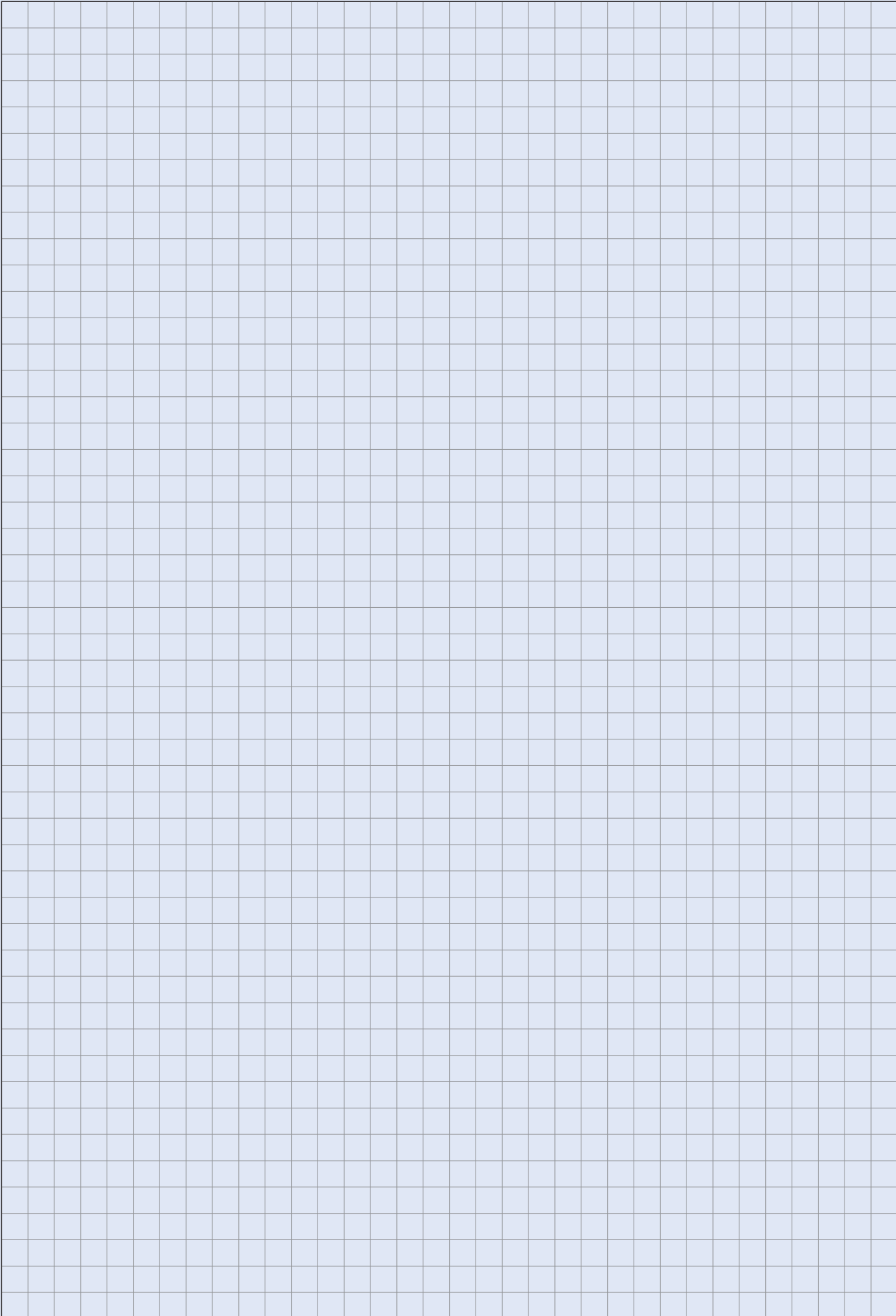
VT01611

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

Section width mm	Switchgear area width mm	Cable connect. area width mm	Removable design sections in 2/4 and SSL switch fuse unit sections with door to switchgear area Article No. per unit unit = 1 set
1000	600	320	XPSBCB320 158612
1200	600	520	XPSBCB520 158614

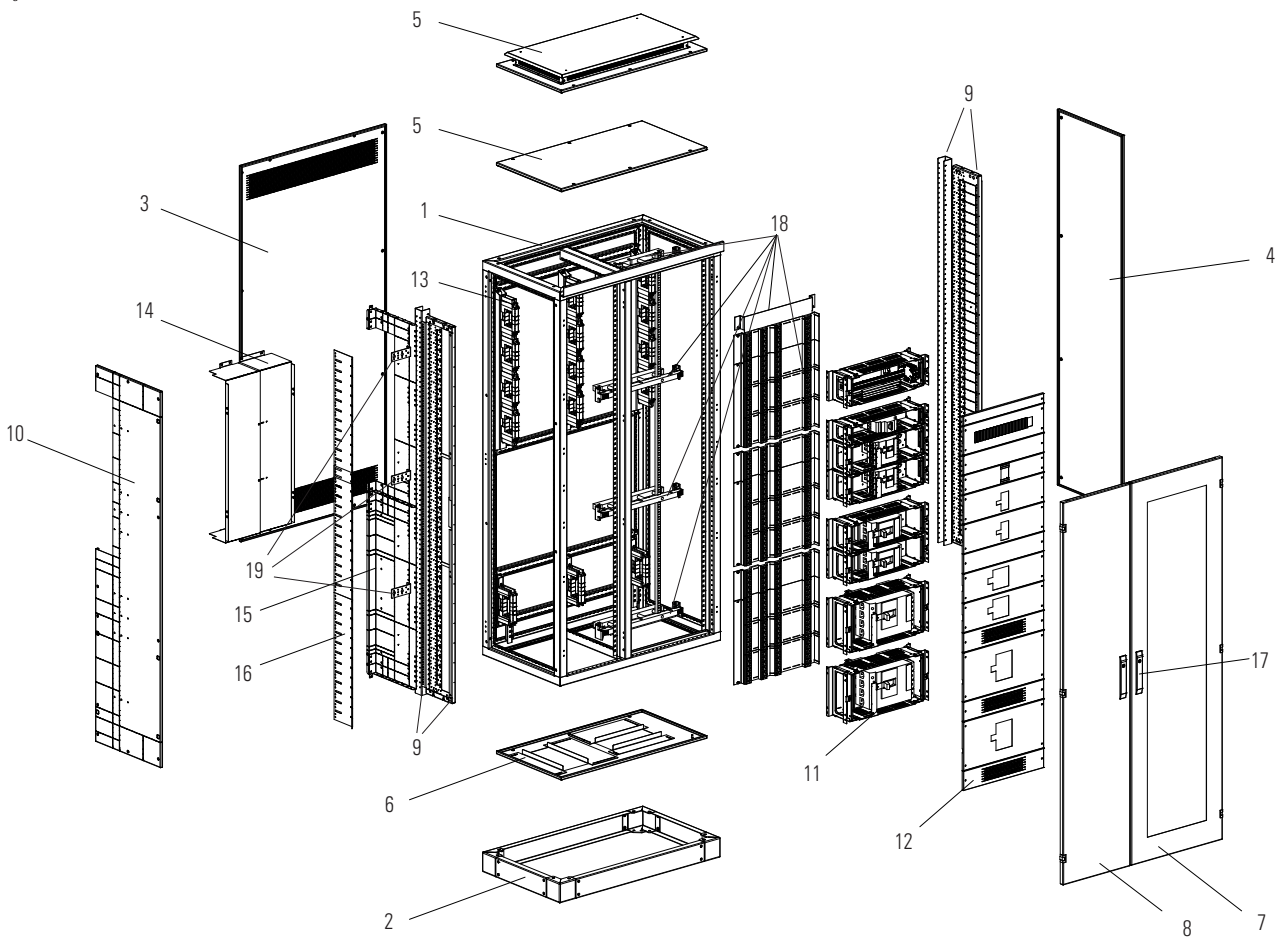
xEnergy Switchboards

Notes



Plug-in Module Technology in Form 4

Katalog 3-1 NZM 4-PI



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door to switchgear area
- 8 Door to connection area
- 9 Fitting kit for plug-in module technology
- 10 Separation section/section
- 11 Modules for plug-in technology
- 12 Front panels
- 13 Support for main busbar
- 14 Partition main busbar/connection area
- 15 Partition dropper bar area/connection area
- 16 Closing strip
- 17 Lock mechanism

- 18 Dropper bar set
- 19 Angle bracket for N and PEN dropper bar

Features

- Widths of 800/1000/1200 mm
- Module width 600 mm
- 3 or 4 poles
- Form 4
- IP31/IP55
- Each module comes with its own front plate
- Separate doors to connection area and switchgear area
- Transparent door is available (glass door)
- To be operated behind the door
- Empty plug-in modules for the installation of FAZ, RCD, ...
- Dropper bar from 800 to 1600 A

- Separate setup in 2 separate sections is possible, e.g. 600 mm cable connection area / 600 mm switchgear area

Notes

Frame comes with a blue design strip.
Doors include locking system for 3mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
For flanges, clip-down handle, lifting eyebolts, 180° hinges, fixing brackets, Durostone posts, connection kits, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Plug-in Module Technology in Form 4

Form 4



VT18610



VT13310



VT10109



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wa_vt33413



VT27209



VT19909



VT25109

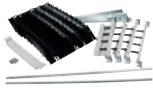


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Section depth mm	Section width mm	Module width mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for bar support Article No. per unit	Busbar support for main busbar Article No. per unit	Busbar support for PEN Article No. per unit	Fitting kit for outgoers with circuit breaker in Form 4 Article No. per unit	Separation p. partition connection/dropper bar Article No. per unit	Partition connection area/main busbar Article No. per unit
600	800	600	XSFB0806 284238	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XSMFDB0606 284253	XPFC2006 284132	XPFCB02 284745
			122281 *	122288 *			122291 *			
		1000	600	XSFB1006 284241	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	XSMFDB0606 284253	XPFC2006 284132
			122284 *	122288 *				122291 *		
	1200	600	XSFB1206 284243	XSFH20 284245	XBBB12 283863	see page xx	XBSP 283872	XSMFDB0606 284253	XPFC2006 284132	XPFCB06 284746
			122286 *	122288 *				122291 *		
800	800	600	XSFB0808 284239	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XSMFDB0608 284294	XPFC2008 284133	XPFCB02 284745
			122282 *	122288 *				122292 *		
		1000	600	XSFB1008 284242	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	XSMFDB0608 284294	XPFC2008 284133
			122285 *	122288 *				122292 *		
	1200	600	XSFB1208 284244	XSFH20 284245	XBBB12 283863	see page xx	XBSP 283872	XSMFDB0608 284294	XPFC2008 284133	XPFCB06 284746
			122287 *	122288 *				122292 *		

Note

* Finish in special RAL colour



VT02409



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wa_vt70013



wa_vt171113



wa_vt34213



wa_vt65013



wa_vt65113



wa_vt34513

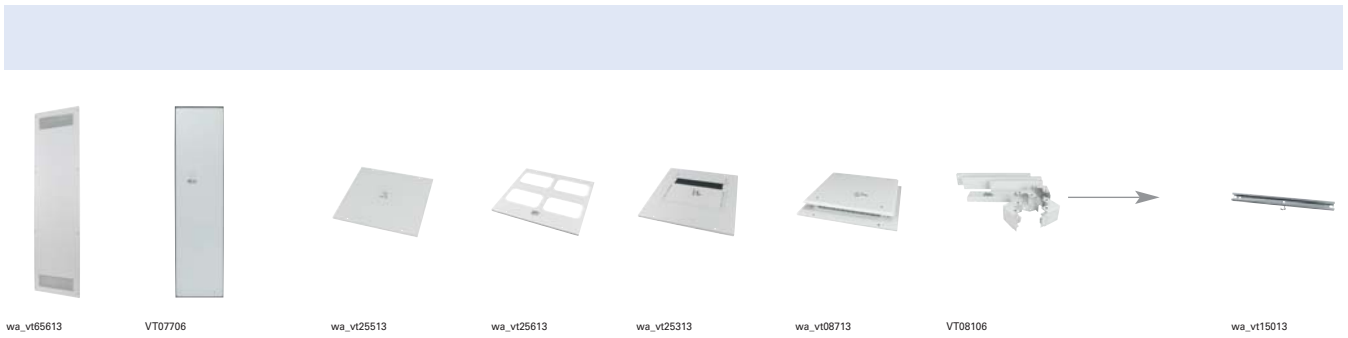


wa_vt25213

Set of dropper bars	Angle bracket for PE or PEN in connection area	Angle bracket for N+PEN in connection area	Door to switch gear area up to IP55 closed	Door to switch gear area up to IP31 ventilated right	Door to switch gear area up to IP31 ventilated left	Door to switch gear area up to IP55 transparent	Door to connection area up to IP55 closed	Rear panel up to IP55 closed
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XDSFP 283895	XDSFN 283894	XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSDFCC2002 284182 122230 *	XSWC2008 284357 122348 *
see page xx	XDSFP 283895	XDSFN 283894	XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237*	XSDFMD2006 284187 122235 *	XSDFCC2004 284183 122231 *	XSWC2010 284358 122349 *
see page xx	XDSFP 283895	XDSFN 283894	XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237*	XSDFMD2006 284187 122235 *	XSDFCC2006 102052 122416 *	XSWC2012 284359 122350 *
see page xx	XDSFP 283895	XDSFN 283894	XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSDFCC2002-1 284700 122357 *	XSWC2008 284357 122348 *
see page xx	XDSFP 283895	XDSFN 283894	XSDFMC2006 284185 122233 *	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSDFCC2004 284183 122231 *	XSWC2010 284358 122349 *
see page xx	XDSFP 283895	XDSFN 283894	XSDFMC2006 284185 122233*	XSDFMRV2006 284191 122239 *	XSDFMLV2006 284189 122237 *	XSDFMD2006 284187 122235 *	XSDFCC2006 102052 122416 *	XSWC2012 284359 122350 *

Note

* Finish in special RAL colour



Rear panel up to IP31 ventilated	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate up to IP31 in several p. up to IP31 ¹⁾	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rails 2 units in each section
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *	XSPBM0806 284293 122308 *	XAD0806 283811 122083 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR04 283850
XSWV2010 284363 122354 *	XAW2006 283857 122119 *	XSPTC1006 284311 122326 *	XSPTF1006 284326 122341 *	XSPBM1006-1 284296 122311 *	XAD1006 283814 122086 *	XAP011006 283832 122100 *	XAP021006 283846 122114 *	XAR04 283850
XSWV2012 284364 122355 *	XAW2006 283857 122119 *	XSPTC1206 284314 122329 *	XSPTF1206 284329 122344 *	XSPBM1206 104531 122423 *	XAD1206 283816 122088 *	XAP011206 283834 122102 *	XAP021206 283848 122116 *	XAR04 283850
XSWV2008 284362 122353 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *	XSPTF0808 284324 122339 *	XSPBM0808 284294 122309 *	XAD0808 283812 122084 *	XAP010808 283830 122098 *	XAP020808 283844 122112 *	XAR06 283851
XSWV2010 284363 122354 *	XAW2008 283858 122120 *	XSPTC1008 284312 122327 *	XSPTF1008 284327 122342 *	XSPBM1008-1 284297 122312 *	XAD1008 283815 122087 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR06 283851
XSWV2012 284364 122355 *	XAW2008 283858 122120 *	XSPTC1208 284315 122330 *	XSPTF1208 284330 122345 *	XSPBM1208 104532 122424 *	XAD1208 283817 122089 *	XAP011208 283835 122103 *	XAP021208 283849 122117 *	XAR06 283851

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.



wa_vt15013



VT25009



VT07906

Cable strain relief rails 3 units in each section	Universal profile for various mounting units	Separation p. section/section
Article No. per unit	Article No. per unit	Article No. per unit
XAR06 283851	XSMPB20 288997	XPSS2006 284178
XAR06 283851	XSMPB20 288997	XPSS2006 284178
XAR06 283851	XSMPB20 288997	XPSS2006 284178
XAR08 283852	XSMPB20 288997	XPSS2008 284179
XAR08 283852	XSMPB20 288997	XPSS2008 284179
XAR08 283852	XSMPB20 288997	XPSS2008 284179

Note

* Finish in special RAL colour

Components



xEnergy Switchboards

Accessories

Fitting kits for plug-in module technology - Form 4



VT19809

Section depth mm	Fitting kits for LS outg. sect. in plug-in module t. module width 600 mm Form 4 Article No. per unit
600	XSMFDB0606 284248 122291 *
800	XSMFDB0608 284249 122292 *

Accessories for outgoing sections: Partitions for internal separation



VT25109



wa_vt71913

Section depth mm	Form 2/4 Partition connection area/dropper bar area Article No. per unit unit = 1 set	Section width mm	Form 2/4 Connection area/dropper bar area in the widths of 200/400/600 Article No. per unit unit = 1 set
600	XPFC2006 284132	800	XPFCB02 284745
800	XPFC2008 284133	1000	XPFCB04 284119
-	-	1200	XPFCB06 284746

Note

* Finish in special RAL colour

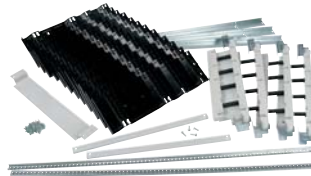
xEnergy Switchboards

Accessories for Outgoing Sections: Plug-in Module Technology , Form 4



	wa_vt63713	wa_vt63813	wa_vt63913	wa_vt72413	wa_vt64013	wa_vt72313	
Poles	Drawer-unit module NZM1 incl. connection cable and mounting bracket and front plate 3 pol.: H = 100mm 4 pol.: H = 150mm Article No. per unit unit = 1 set	Drawer-unit module NZM2 incl. rear connection and mounting bracket and front plate 3 pol.: H = 150mm 4 pol.: H = 200mm Article No. per unit unit = 1 set	Drawer-unit module NZM3 incl. rear connection and mounting bracket and front plate 3 pol.: H = 200mm 4 pol.: H = 250mm Article No. per unit unit = 1 set	Drawer-unit module PKZ0 PKZ2, PKZ4 incl. connection cable and mounting bracket and front plate H = 100 mm Article No. per unit unit = 1 set	Empty drawer-unit module with DIN-rail incl. connection cable and mounting bracket and front plate 4 poles H = 150 mm Article No. per unit unit = 1 set	Empty-drawer unit module with DIN-rail incl. connection cable and mounting bracket and front plate 4 poles H = 250 mm Article No. per unit unit = 1 set	Mounting element for plug-in module techn. Article No. per unit unit = 1 set
3 poles	XMN130406-PI-4 122039 122639 *	XMN230606-PI-4 122040 122640 *	XMN330806-PI-4 122041 122641 *	XMP430406-PI-4 122046 122646 *	-	XAGAF-PI 126018	
4 poles	XMN140606-PI-4 122042 122642 *	XMN240806-PI-4 122043 122643 *	XMN341006-PI-4 122044 122644 *	-	XMMC0606-PI-4 122047 122647 *	XMMC1006-PI-4 122045 122645 *	

Set of Dropper Bars for Plug-in Module Technology in Form 4



VT02309

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type	set = droppers bar carrier	
A	mm ²	mm ²	Fitting kit, dropper bars 3 poles L1, L2, L3 Article No. 1 set	shutter U-profile , H = 2023 mm sheet steel partition (bracket) plastic bracket (partition) front plate 25 mm fastening material	- 4 pcs. - 12 pcs. - 2 pcs. - 3 pcs. - 1 pc. - 2 pcs. - 1 set
Form 4					
800	1 x 40 x 10 (N = 1 x 40 x 10) ¹⁾	1 x 20 x 10 ¹⁾	XDSF08-PI-4 122021		
1000	1 x 60 x 10 (N = 2 x 40 x 10) ¹⁾	1 x 40 x 10 ¹⁾	XDSF10-PI-4 122022		
1200	1 x 80 x 10 (N = 2 x 40 x 10) ¹⁾	1 x 40 x 10 ¹⁾	XDSF12-PI-4 122023		
1600	1 x 100 x 10 (N = 2 x 60 x 10) ¹⁾	1 x 60 x 10 ¹⁾	XDSF16-PI-4 122024		

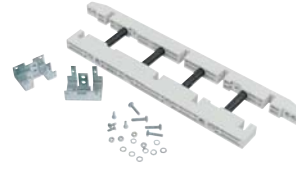
Note

* Finish in special RAL colour

¹⁾ Where necessary, this is to be determined depending on the cross-section required for N or PE, PEN of the main busbar.

xEnergy Switchboards

Extension Set for Dropper Bars, Suitable for Form 2/4



wa_vt63413

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type Extension set for dropper bars 3+4 poles L1, L2, L3 Article No. 1 set
A	mm ²	mm ²	
800	1 x 40 x 10	1 x 20 x 10	XDSF08-PI-E 122025
1000	1 x 60 x 10	1 x 40 x 10	XDSF10-PI-E 122026
1200	1 x 80 x 10	1 x 40 x 10	XDSF12-PI-E 122027
1600	1 x 100 x 10	1 x 60 x 10	XDSF16-PI-E 122028

Support Brackets for N and PEN in the Cable Connection Area



wa_vt69913



wa_vt70013

Type of support for conductor in connection area ¹⁾ PE or PEN	N+PEN	
Article No. per unit	Article No. per unit	
XDSFP 283895	XDSFN 283894	
XDSFP 283895	XDSFN 283894	
XDSFP 283895	XDSFN 283894	

xEnergy Switchboards

Accessories for 5000A application with a section depth of 1000mm

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section



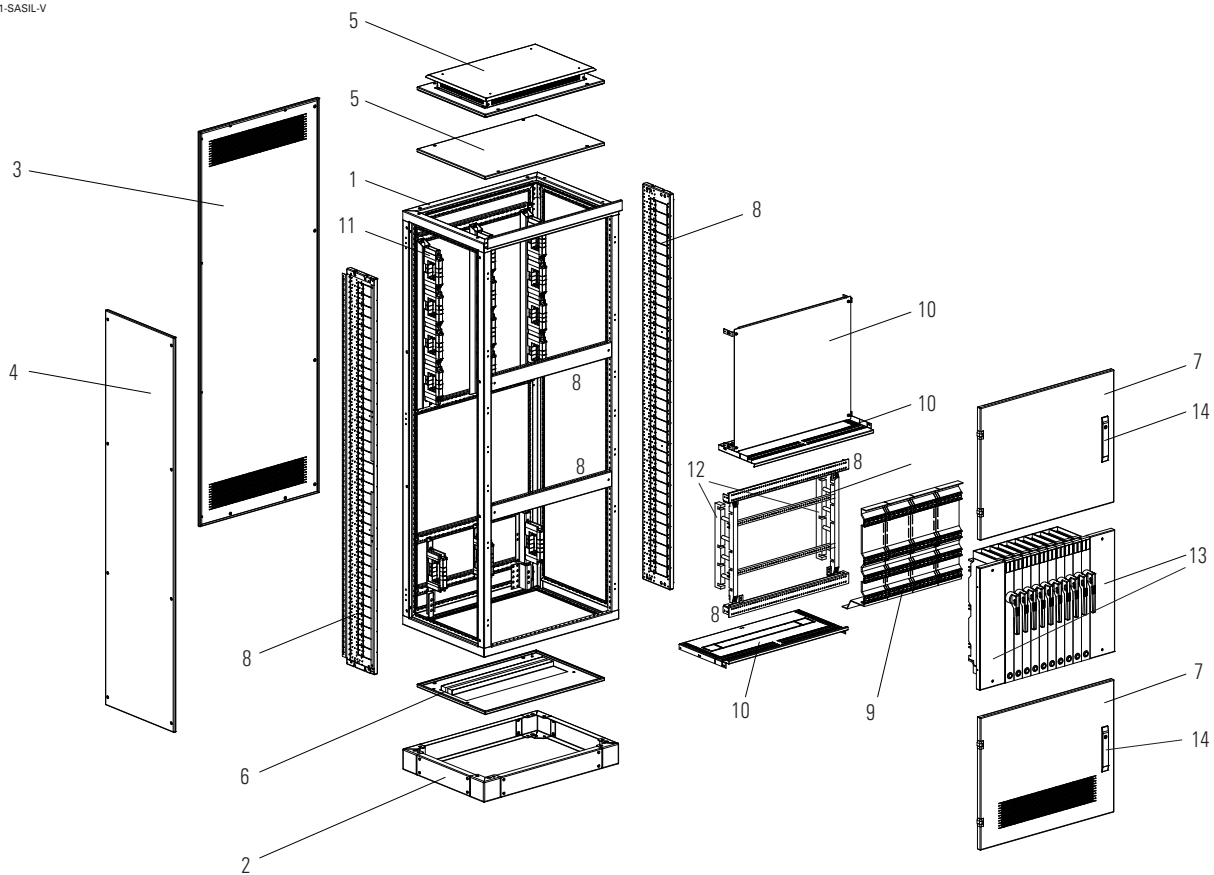
VT01611

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

Section width mm	Switchgear area width mm	Cable connect. area width mm	Removable design sections in 2/4 and SSL switch fuse unit sections with door to switchgear area Article No. per unit unit = 1 set
1000	600	320	XPSBCB320 158612
1200	600	520	XPSBCB520 158614

Outgoing Section for PIFT vertical

Katalog 4-1-SASIL-V



Abbreviations:

EVEN Main busbars and connection area are on the same side
 OPPO Main busbars and connection area are opposite each other
 UK 3P&N (for UK market)

- | | |
|----|-------------------------|
| 1 | Frame |
| 2 | Plinth |
| 3 | Rear panel |
| 4 | Side panel |
| 5 | Top panel |
| 6 | Bottom panel |
| 7 | Door |
| 8 | Fitting kit for PIFT |
| 9 | Shutter |
| 10 | Separation panels |
| 11 | Support for main busbar |
| 12 | Support for dropper bar |
| 13 | Cover for empty spaces |
| 14 | Lock mechanism |

Features

- Widths of 600/800/1000 mm
- Suitable for rear-mounted main busbar
- Can be installed while energized (strips)
- IP31
- Outgoers are possible up and downwards
- Form 3
- To be operated from outside
- Dropper bar from 800 to 1600 A
- Suitable for fuse strips from ABB and Jean-Müller

Notes

Frame comes with a blue design strip.
 Doors include locking system for 3 mm two-way key bit.
 Where cover plates in several parts are used, it may be necessary to ensure the appropriate degree of protection through additional measures.
 For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Outgoing Section with Switch Fuse Units, Vertical, Main Busbars rear-mounted (HSS), PIFT Vertical



wa_vt72413



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



VT24309

Section depth mm	Section width mm	Width of switchgear area ready to carry equipment mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for bar support Article No. per unit	Support for main busbar Article No. per unit	Busbar support for PE/PEN Article No. per unit	Fitting kit for PIFT to be operated from outside Article No. per unit
600	600	500	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMSV0608 284279 122299 *
	800	700	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMSV0808 284281 122300 *
	1000	900	XSFB1006 284241 122284 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMSV1008 285510 122378 *
800	600	500	XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBBB06 283860	see page xx	XBSP 283872	XSMSV0608 284279 122299 *
	800	700	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBBB08 283861	see page xx	XBSP 283872	XSMSV0808 284281 122300 *
	1000	900	XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMSV1008 285510 122378 *

Note

* Finish in special RAL colour



VT18709



VT21209



wa_vt63313



wa_vt65313



wa_vt65413



wa_vt65513



wa_vt65613



VT07706



wa_vt25513

Fitting kit support for dropper bar	Partitions separation panels	Separation p. for EVEN connection	Door to switch-gear area (one-third door) up to IP55 closed	Door to switch-gear area (one-third door) up to IP31 ventilated right	Door to switch-gear area (one-third door) up to IP31 ventilated left	Rear panel up to IP31 ventilated	Side panel up to IP55	Cover plate up to IP55 closed
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XPL06 284161	XPLB0606 116456	XSDMC0606 284195 122241 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *	XSWV2006 284361 122352 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *
see page xx	XPL08 284162	XPLB0806 116457	XSDMC0608 284196 122242 *	XSDMRV0608 284216 122262 *	XSDMLV0608 284207 122253 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *
see page xx	XPL10 285500	XPLB1006 116458	XSDMC0610 285506 122374 *	XSDMRV0610 285508 122376 *	XSDMLV0610 285507 122375 *	XSWV2010 284363 122354 *	XAW2006 283857 122119 *	XSPTC1006 284311 122326 *
see page xx	XPL0608 126006	XPLB0608 124415	XSDMC0606 284195 122241 *	XSDMRV0606 284215 122261 *	XSDMLV0606 284206 122252 *	XSWV2006 284361 122352 *	XAW2008 283858 122120 *	XSPTC0608 284306 122321 *
see page xx	XPL0808 126007	XPLB0808 124416	XSDMC0608 284196 122242 *	XSDMRV0608 284216 122262 *	XSDMLV0608 284207 122253 *	XSWV2008 284362 122353 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *
see page xx	XPL1008 126008	XPLB1008 124417	XSDMC0610 285506 122374 *	XSDMRV0610 285508 122376 *	XSDMLV0610 285507 122375 *	XSWV2010 284363 122354 *	XAW2008 283858 122120 *	XSPTC1008 284312 122327 *

Note

* Finish in special RAL colour



Cover plate up to IP55 for flanges	Cover plate up to IP31 ventilated	Cover plate in several parts up to IP31 ¹⁾	Plinth 100 mm	Plinth 200 mm	Cable strain relief rails	Fixing brack. for cable strain relief rail	Separation panel section/ section	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPTF0606 284320	XAD0606 283488	XSPBM0606 284290	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	XPSS2006 284178	
122335 *	122080 *	122305 *	122094 *	122108 *				
XSPTF0806 284323	XAD0806 283811	XSPBM0806 284293	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	XPSS2006 284178	
122338 *	122083 *	122308 *	122097 *	122111 *				
XSPTF1006 284326	XAD1006 283814	XSPBM1006 104529	XAP011006 283832	XAP021006 283846	XAR10 283853	XNBW-R2 106740	XPSS2006 284178	
122341 *	122086 *	122421 *	122100 *	122114 *				
XSPTF0608 284321	XAD0608 283489	XSPBM0608 284291	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	XPSS2008 284179	
122336 *	122081 *	122306 *	122094 *	122108 *				
XSPTF0808 284324	XAD0808 283812	XSPBM0808 284294	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	XPSS2008 284179	
122339 *	122084 *	122309 *	122097 *	122111 *				
XSPTF1008 284327	XAD1008 283815	XSPBM1008 104530	XAP011006 283832	XAP021006 283846	XAR10 283853	XNBW-R2 106740	XPSS2008 284179	
122342 *	122087 *	122422 *	122100 *	122114 *				

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

xEnergy Switchboards

Accessories

Fitting kits for SSL Switch-fuse Units PIFT (vertical)



Section width mm	Fitting kits for SSL switch-fuse units PIFT vertical Article No. per unit
425	-
600	XSMSV0608 284279 122299 *
800	XSMSV0808 284281 122300 *
1000	XSMSV1008 285510 122378 *

Accessories for Outgoing Sections: Empty-space Covers



Height mm	Empty-space cover for closing the gap between switchgear area and cable connection area Article No. per unit unit = 1 pc.
25	XPFMC25 143197
50	XPFMC50 143198
75	XPFMC75 143199
100	XPFMC100 143194
150	XPFMC150 143195
200	XPFMC200 143196

Accessories for Outgoing Sections: Empty-space Covers



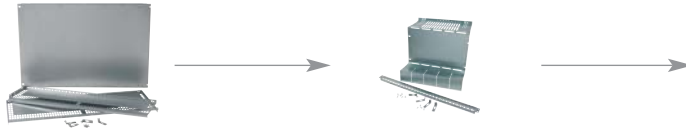
For SSL H = 25 mm	For SSL H = 50 mm	For SSL H = 75 mm	For SSL H = 75 mm ventilated	For SSL H = 150 mm	Set for conventional arc fault protection for PIFT
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XME0601CS 289955 122393 *	XME0602CS 292500 122399 *	XME0603CS 292501 122400 *	XME0603CSV 129011 129014 *	XME0606CS 292502 122401 *	XSMS06 108781 122562 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: Separation Panels



Width mm	Partition separation panels for SSL section section depth 600 mm Article No. per unit unit = 1 set	Partition separation panels for SSL section section depth 800 mm Article No. per unit unit = 1 set	Partition for SSL section vertical install. section depth 600 mm with EVEN type of connection Article No. per unit unit = 1 set	Partition for SSL section vertical instal. section depth 800 mm with EVEN type of connection Article No. per unit unit = 1 set
600	XPL-06 284161	XPL0608 126006	XPLB0606 116456	XPLB0608 124415
800	XPL-08 284162	XPL0808 126007	XPLB0806 116457	XPLB0808 124416
1000	XPL-10 285500	XPL1008 126008	XPLB1006 116458	XPLB1008 124417

Dropper Bars up to 1600A for Outgoing Sections - PIFT vertical

Features:

- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT



VT18809

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type Fitting kit, dropper bars 3 poles L1, L2, L3
A	mm ²	mm ²	Article No. 1 set
Dropper bars, horizontal, for vertically installed PIFT fuse strips, center-to-center phase distance 185 mm Set includes 2 supports			
800	1 x 40 x 10 (N = 1 x 40 x 10) ¹⁾	1 x 20 x 10 ¹⁾	XDSSH08 283896
1000	1 x 60 x 10 (N = 2 x 40 x 10) ¹⁾	1 x 40 x 10 ¹⁾	XDSSH10 283897
1200	1 x 80 x 10 (N = 2 x 40 x 10) ¹⁾	1 x 40 x 10 ¹⁾	XDSSH12 283898
1600	1 x 100 x 10 (N = 2 x 60 x 10) ¹⁾	1 x 60 x 10 ¹⁾	XDSSH16 283899

Note

* Finish in special RAL colour

For short-circuit strength see as of page xx

¹⁾ Where necessary, this is to be determined depending on the cross-section required for N or PE, PEN of the main busbar.

xEnergy Switchboards

Accessories for 5000A applications with a section depth of 1000mm

Additional partition for 5000A systems

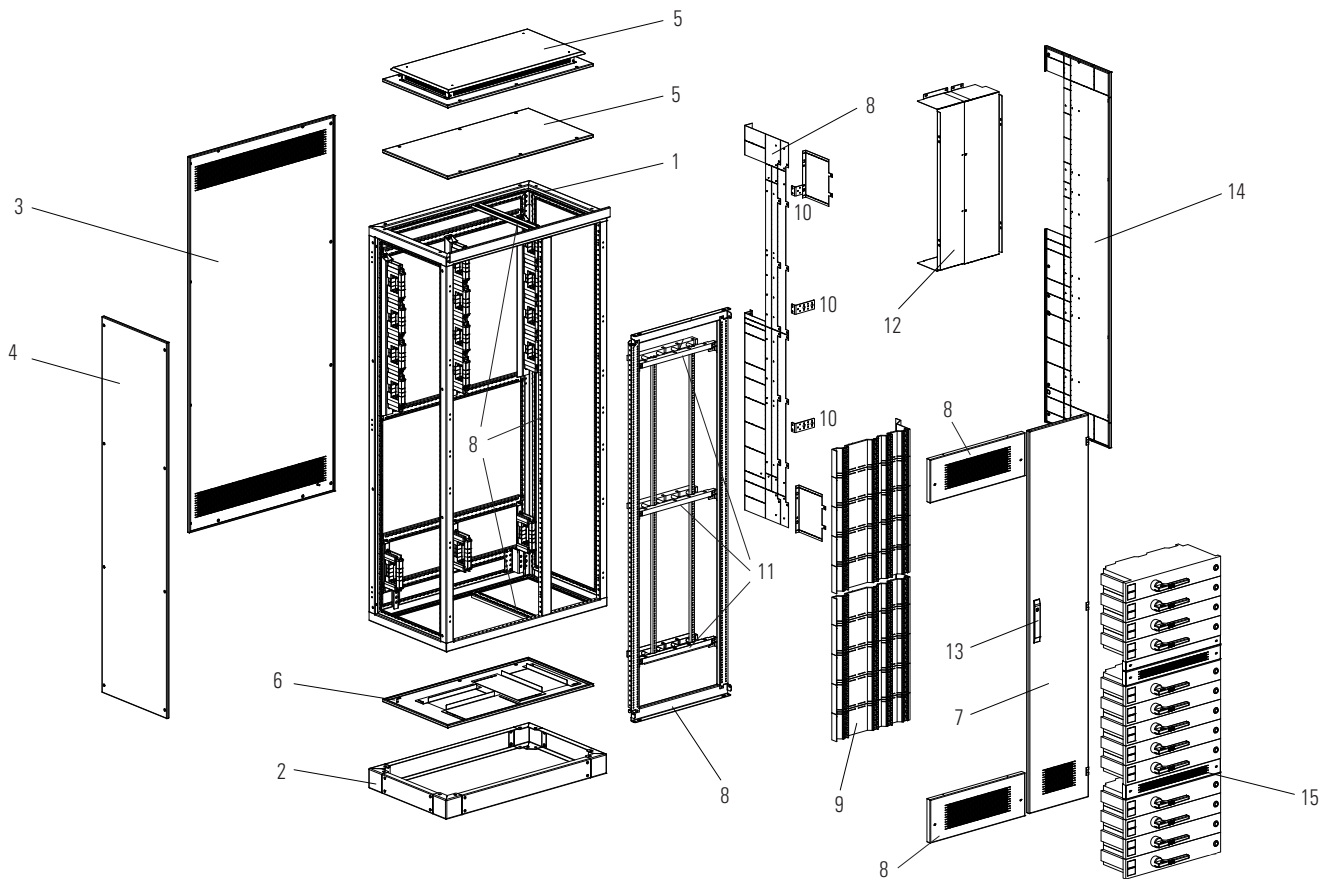


wa_v71313

Section width mm	Partition extension for 5000A systems busbar area/ main busbar area	Article No. per unit unit = 1 pc.
600	XPIBCB-H-06019 150515	
800	XPIBCB-H-08019 150516	
1000	XPIBCB-H-10019 150518	

Outgoing Section for PIFT horizontal

Katalog 4-1-SASIL



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door to connection area
- 8 Fitting kit for PIFT
- 9 Shutter
- 10 Angle bracket for N and PEN dropper bars
- 11 Support for dropper bars
- 12 Partition main busbar/cable connection area
- 13 Lock mechanism
- 14 Separation panel section/section
- 15 Front panel ventilated

Features

- Widths of 600/800/1000 mm
- Suitable for main busbar at the rear
- Can be installed while energized (strips)
- IP31
- Outgoers are possible up and downwards
- Form 3
- Operation is possible from outside or behind the door
- Dropper bars from 800 to 1600 A
- Suitable for fuse strips from Eaton and ABB

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to provide for the required degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Outgoing Section with Switch Fuse Units - Horizontal, Main Busbars rear-mounted (HSS), PIFT



wa_vt76013

Suitable for PIFT, ABB Slim Line



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209

Section depth mm	Section width mm	Width of switchgear area	Width of connection area mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for bar support Article No. per unit	Support for main busbar Article No. per unit	Busbar support for PEN Article No. per unit	
600	1000	600	400	XSFB1006 284241	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	
				122284 *	122288 *				
	1200	600	600	XSFB1206 284243	XSFH20 284245	XBBB12 283863	see page xx	XBSP 283872	
				122286 *	122288 *				
	With door to switchgear area	1000	675	325	XSFB1006 284241	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872
					122284 *	122288 *			
		1200	675	525	XSFB1206 284243	XSFH20 284245	XBBB12 283863	see page xx	XBSP 283872
					122286 *	122288 *			
800	1000	600	400	XSFB1008 284242	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	
				122285 *	122288 *				
	1200	600	600	XSFB1208 284244	XSFH20 284245	XBBB12 283863	see page xx	XBSP 283872	
				122287 *	122288 *				
	With door to switchgear area	1000	675	325	XSFB1008 284242	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872
					122285 *	122288 *			
		1200	675	525	XSFB1208 284244	XSFH20 284245	XBBB12 283863	see page xx	XBSP 283872
					122287 *	122288 *			

Note

* Finish in special RAL colour



VT2009



VT2109



VT0049, VT00309, VT00209



VT18809



wa_vt68913



wa_vt70013



wa_vt171913



wa_vt65013

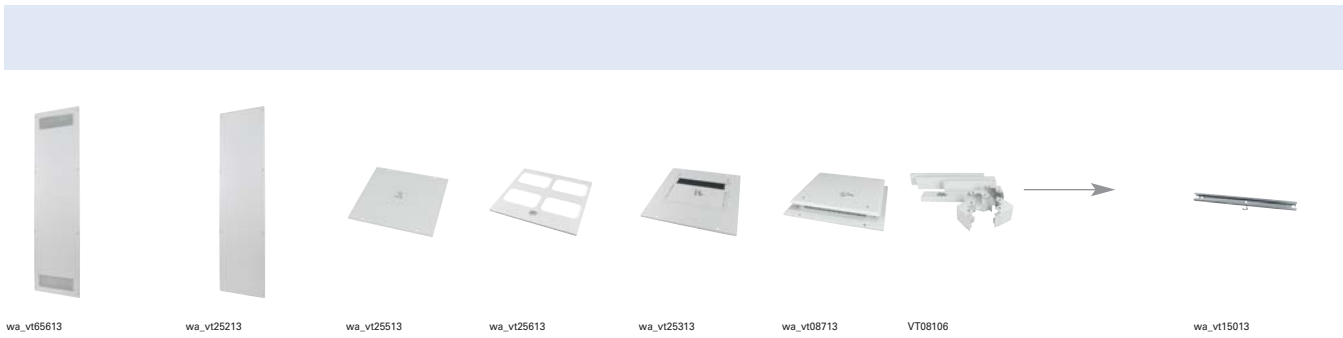


wa_vt65213

Fitting kit for PIFT operated from outside	Fitting kit for PIFT operated behind door	Fitting kit for Slim-Line (ABB) operated from outside	Fitting kit support for dropper bar	Angle bracket for PE/PEN in connection area	Angle bracket for N/PEN in connection area	Partition ¹⁾ connection area/main busbar	Door to switch gear area up to IP31 ventilated left	Door to connection area up to IP31 ventilated right
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSM SHD06 284274 122295 *	-	XSM SH-ABB 110278 122606 *	see page xx	XDSFP 283895	XDSFN 283894	XPFCB04 284119	-	XDS SCR V2004 284227 122270 *
XSM SHD06 284274 122295 *	-	XSM SH-ABB 110278 122606 *	see page xx	XDSFP 283895	XDSFN 283894	XPFCB06 284746	-	XDS SCR V2006 284229 122272 *
-	XSM SHI06 284276 122297 *	-	see page xx	XDSFP 283895	XDSFN 283894	XPFCB04 284119	XDS SMLV2006 284230 122273 *	XDS SCR V2003 284226 122269 *
-	XSM SHI06 284276 122297 *	-	see page xx	XDSFP 283895	XDSFN 283894	XPFCB06 284746	XDS SMLV2006 284230 122273 *	XDS SCR V2005 284228 122271 *
XSM SHD08 284275 122296 *	-	-	see page xx	XDSFP 283895	XDSFN 283894	XPFCB04 284119	-	XDS SCR V2004 284227 122270 *
XSM SHD08 284275 122296 *	-	-	see page xx	XDSFP 283895	XDSFN 283894	XPFCB06 284746	-	XDS SCR V2006 284229 122272 *
-	XSM SHI08 284277 122298 *	-	see page xx	XDSFP 283895	XDSFN 283894	XPFCB04 284119	XDS SMLV2007 284230 122273 *	XDS SCR V2003 284226 122269 *
-	XSM SHI08 284277 122298 *	-	see page xx	XDSFP 283895	XDSFN 283894	XPFCB06 284746	XDS SMLV2007 284230 122273 *	XDS SCR V2005 284228 122271 *

Note

¹⁾ Width = depending on module width and width of section
* Finish in special RAL colour



Rear panel up to IP31 ventilated	Side panel up to IP55	Cover plate up to IP55 closed	Cover plate up to IP55 for flanges	Cover plate in several p. up to IP31 ¹⁾	Cover plate up to IP31 ventilated	Plinth 100 mm	Plinth 200 mm	Cable strain relief rails 5 units
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSWV2010 284363 122354 *	XAW2006 283857 122119 *	XSPTC1006 284311 122326 *	XSPTF1006-XF 121444 122630 *	XSPBM1006-1 284296 122311 *	XAD1006 283814 122086 *	XAP011006 283832 122100 *	XAP021006 283846 122114 *	XAR04 283850
XSWV2012 284364 122355 *	XAW2006 283857 122119 *	XSPTC1206 284314 122329 *	XSPTF1206-XF 121446 122632 *	XSPBM1206-1 284299 122314 *	XAD1206 283816 122088 *	XAP011206 283834 122102 *	XAP021206 283848 122116 *	XAR04 283850
XSWV2010 284363 122354 *	XAW2006 283857 122119 *	XSPTC1006 284311 122326 *	XSPTF1006-XF 121444 122630 *	XSPBM1006-1 284296 122311 *	XAD1006 283814 122086 *	XAP011006 283832 122100 *	XAP021006 283846 122114 *	XAR04 283850
XSWV2012 284364 122355 *	XAW2006 283857 122119 *	XSPTC1206 284314 122329 *	XSPTF1206-XF 121446 122632 *	XSPBM1206-1 284299 122314 *	XAD1206 283816 122088 *	XAP011206 283834 122102 *	XAP021206 283848 122116 *	XAR04 283850
XSWV2010 284363 122354 *	XAW2008 283858 122120 *	XSPTC1008 284312 122327 *	XSPTF1008-XF 121445 122631 *	XSPBM1008-1 284297 122312 *	XAD1008 283815 122087 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR06 283851
XSWV2012 284364 122355 *	XAW2008 283858 122120 *	XSPTC1208 284315 122330 *	XSPTF1208-XF 121447 122633 *	XSPBM1208-1 284300 122315 *	XAD1208 283817 122089 *	XAP011208 283835 122103 *	XAP021208 283849 122117 *	XAR06 283851
XSWV2010 284363 122354 *	XAW2008 283858 122120 *	XSPTC1008 284312 122327 *	XSPTF1008-XF 121445 122631 *	XSPBM1008-1 284297 122312 *	XAD1008 283815 122087 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR06 283851
XSWV2012 284364 122355 *	XAW2008 283858 122120 *	XSPTC1208 284315 122330 *	XSPTF1208-XF 121447 122633 *	XSPBM1208-1 284300 122315 *	XAD1208 283817 122089 *	XAP011208 283835 122103 *	XAP021208 283849 122117 *	XAR06 283851

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.



VT25009



VT07906

Mounting profile	Separation p. section/section	
Article No. per unit	Article No. per unit	
XSMPB20 288997	XPSS2006 284178	
XSMPB20 288997	XPSS2006 284178	
XSMPB20 288997	XPSS2006 284178	
XSMPB20 288997	XPSS2006 284178	
XSMPB20 288997	XPSS2008 284179	
XSMPB20 288997	XPSS2008 284179	
XSMPB20 288997	XPSS2008 284179	
XSMPB20 288997	XPSS2008 284179	

Note

* Finish in special RAL colour

Components



xEnergy Switchboards

Accessories

Fitting Kits for SSL Switch Fuse Units, Main Busbar rear-mounted



VT20009



VT20109



VT00409, VT00309

Section depth mm	Fitting kits for SSL switch fuse units PIFT horizontal	Fitting kits for SSL switch fuse units PIFT horizontal behind the door	Fitting kits for SSL switch-fuse units ABB horizontal
	Article No. per unit	Article No. per unit	Article No. per unit
600	XSMSHD06 284274 122295 *	XSMSHI06 284276 122297 *	XSMSH-ABB 110278 122606 *
800	XSMSHD08 284275 122296 *	XSMSHI08 284277 122298 *	-

Accessories for Outgoing Sections: Empty-space Covers



VT28410

Height mm	Empty-space cover for closing the gap between switchgear area and cable connection area
	Article No. per unit unit = 1 pc.
25	XPFMC25 143197
50	XPFMC50 143198
75	XPFMC75 143199
100	XPFMC100 143194
150	XPFMC150 143195
200	XPFMC200 143196

Accessories for Outgoing Sections: Empty-space Covers



VT08406



VT00709

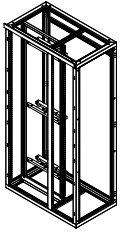
For SSL H = 25 mm	For SSL H = 50 mm	For SSL H = 75 mm	For SSL H = 75 mm ventilated	For SSL H = 150 mm	Set for conventional arc fault protection for PIFT
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XME0601CS 289955 122393 *	XME0602CS 292500 122399 *	XME0603CS 292501 122400 *	XME0603CSV 129011 129014 *	XME0606CS 292502 122401 *	XSMS06 108781 122562 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Dropper Bars up to 1600A for Outgoing Sections - PIFT



00123257_0

Features:

- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT



VT18809

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type Fitting kit, dropper bars 3 poles L1, L2, L3
A	mm ²	mm ²	Article No. 1 set

**Dropper bars, vertical, for horizontally installed PIFT fuse strips, center-to-center phase distance 185 mm
Set includes 3 supports, one of them with end plate**

800	1 x 40 x 10	1 x 20 x 10	XDSSV08 283902
1000	1 x 60 x 10	1 x 40 x 10	XDSSV10 283903
1200	1 x 80 x 10	1 x 40 x 10	XDSSV12 283904
1600	1 x 100 x 10	1 x 60 x 10	XDSSV16 283905

Accessories for Outgoing Sections PIFT



wa_vt69913



wa_vt70013

Accessories for Outgoing Sections: Partitions for internal separation



wa_vt71913

Type of support for conductor in connection area ¹⁾ PE or PEN	N+PEN	Section width mm	Form 2/4 Connection area/ dropper bar area in the widths of 200/400/600 Article No. per unit unit = 1 set
Article No. per unit	Article No. per unit		
XDSFP 283895	XDSFN 283894	800	XPFCB02 284745
XDSFP 283895	XDSFN 283894	1000	XPFCB04 284119
XDSFP 283895	XDSFN 283894	1200	XPFCB06 284746

Note For short-circuit strength see as of page xx

xEnergy Switchboards

Accessories for 5000A application with a section depth of 1000mm

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section



VT01611

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

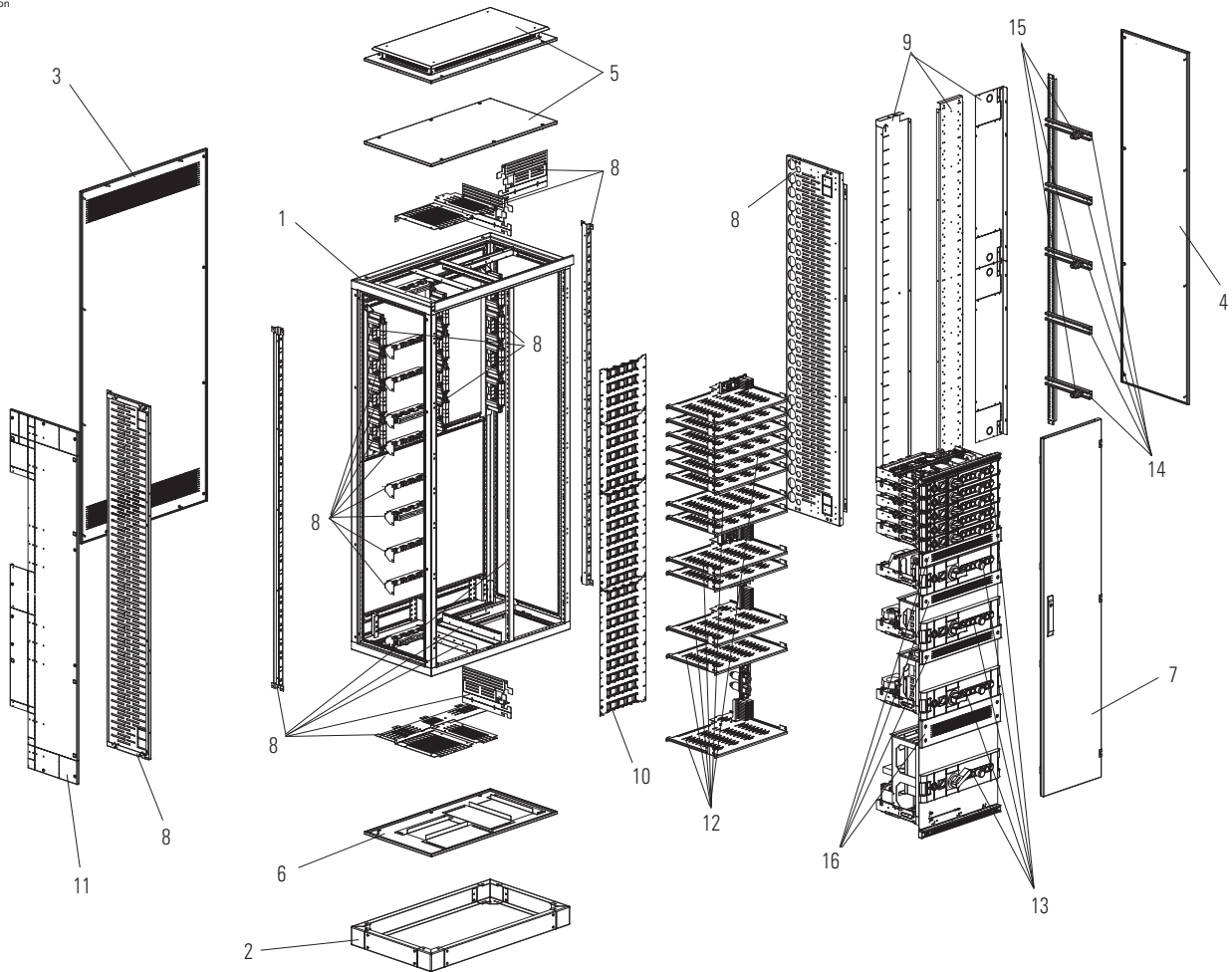
Section width mm	Switchgear area width mm	Cable connect. area width mm	Switch fuse unit section without door to the switchgear area Article No. per unit unit = 1 set	Removable design sections in 2/4 and SSL switch fuse unit sections with door to switchgear area Article No. per unit unit = 1 set	
1000	600	385	XPSBCB385 158611	-	
1200	600	585	XPSBCB585 158613	-	
1000	600	320	-	XPSBCB320 158612	
1200	600	520	-	XPSBCB520 158614	

XW = Outgoing sections in withdrawable design

Outgoing sections as Motor Control Centers in withdrawable design Page 219

Outgoing Sections as Motor Control Centers in Withdrawable Design

MCC_Explosion



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Fitting kit Motor Control Center
- 9 Partition between main busbar area/cable connection area
- 10 Partition dropper bar
- 11 Separation panel section/section
- 12 Shelf-boards
- 13 Drawers
- 14 Anchoring rails
- 15 Supports/Insulator neutral conductors

16 Front panels

Features

- Section height 2000 mm
- Section depths of 600/800/1000 mm
- Section widths of 1000/1200 mm
- IP31/55
- Outgoings are possible at the top and bottom
- Form 4b
- Dropper bars $I_n = 1000/2000$ A
- Dropper bar short-circuit current I_{cw} max = 80 kA
- N+PE in the cable connection area
- Module can be replaced while system is energized
- Max. switchgear area available
- H = 1875 mm

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to provide for the required degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durystone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".
No additional partition for 5000A applications necessary.

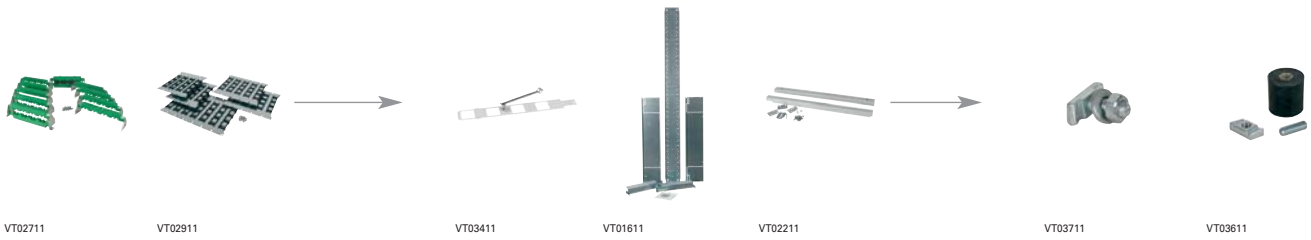
Outgoing Sections as Motor Control Centers in Withdrawable Design



Section depth mm	Section width mm	Width of connection area mm	Frames	Vertical profiles	Crossbar for bar support	Support for main busbar	Busbar support for PEN	Fitting kit for MCC
			Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
600	1000	400	XSFB1006 284241 122284 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMFDB0606-MC 151211
	1200	600	XSFB1206 284243 122286 *	XSFH20 284245 122288 *	XBBB12 283863	see page xx	XBSP 283872	XSMFDB0606-MC 151211
800	1000	400	XSFB1008 284242 122285 *	XSFH20 284245 122288 *	XBBB10 283862	see page xx	XBSP 283872	XSMFDB0608-MC 151212
	1200	600	XSFB1208 284244 122287 *	XSFH20 284245 122288 *	XBBB12 283863	see page xx	XBSP 283872	XSMFDB0608-MC 151212

Note

* Finish in special RAL colour



Dropper bar set	Shutters 35, 50, 65 kA	Shutters 80 kA	Shutter Accessories	Partition Cable connect area/Main busbar area	Front filler IP31	Front filler IP55	Fixing set for PE/PEN dropper bar in the cable connect. area	Fixing set for N dropper bar in the cable connect. area
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
see page xx	XPFD-65-MC 151215	XPFD-80-MC 151216	XPFD-A-MC 151217	XPFCB04-MC 151213	XMCTB-V-MC 151218 152661 *	XMCTB-C-MC 151219 152662 *	XDSFP-MC 151220	XDSFN-MC 151221
see page xx	XPFD-65-MC 151215	XPFD-80-MC 151216	XPFD-A-MC 151217	XPFCB06-MC 151214	XMCTB-V-MC 151218 152661 *	XMCTB-C-MC 151219 152662 *	XDSFP-MC 151220	XDSFN-MC 151221
see page xx	XPFD-65-MC 151215	XPFD-80-MC 151216	XPFD-A-MC 151217	XPFCB04-MC 151213	XMCTB-V-MC 151218 152661 *	XMCTB-C-MC 151219 152662 *	XDSFP-MC 151220	XDSFN-MC 151221
see page xx	XPFD-65-MC 151215	XPFD-80-MC 151216	XPFD-A-MC 151217	XPFCB06-MC 151214	XMCTB-V-MC 151218 152661 *	XMCTB-C-MC 151219 152662 *	XDSFP-MC 151220	XDSFN-MC 151221

Note

* Finish in special RAL colour



Door to cable conn. area IP55	Door to cable connection area IP31	Rear panel IP55	Rear panel IP31	Cover plate closed IP55	Cover plate for flanges up to IP55	Cover plate in several parts up to IP31	Cover plate ventilated up to IP31	Rain top IP31
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDFCC2004 284183	XSDFCRV2004 151670	XSWC2010 284358	XSWV2010 284363	XSPTC1006 284311	XSPTF1006-MC 158116	XSPBM1006-MC 158120	XAD1006 283814	XSFDR10-X1-B 155542
122231 *	151672 *	122349 *	122354 *	122326 *			122086 *	
XSDFCC2006 102052	XSDFCRV2006 151671	XSWC2012 284359	XSWV2012 284364	XSPTC1206 284314	XSPTF1206-MC 158117	XSPBM1206-MC 158121	XAD1206 283816	XSFDR12-X1-B 155543
122416 *	151673 *	122350 *	122355 *	122329 *			122088 *	
XSDFCC2004 284183	XSDFCRV2004 151670	XSWC2010 284358	XSWV2010 284363	XSPTC1008 284312	XSPTF1008-MC 158118	XSPBM1008-MC 158122	XAD1008 283815	XSFDR10-X1-B 155542
122231 *	151672 *	122349 *	122354 *	122327 *			122087 *	
XSDFCC2006 102052	XSDFCRV2006 151671	XSWC2012 284359	XSWV2012 284364	XSPTC1208 284315	XSPTF1208-MC 158119	XSPBM1208-MC 158123	XAD1208 283817	XSFDR12-X1-B 155543
122416 *	151673 *	122350 *	122355 *	122330 *			122089 *	

Note

* Finish in special RAL colour



VT08106



wa_vt15013



VT25009



VT07906

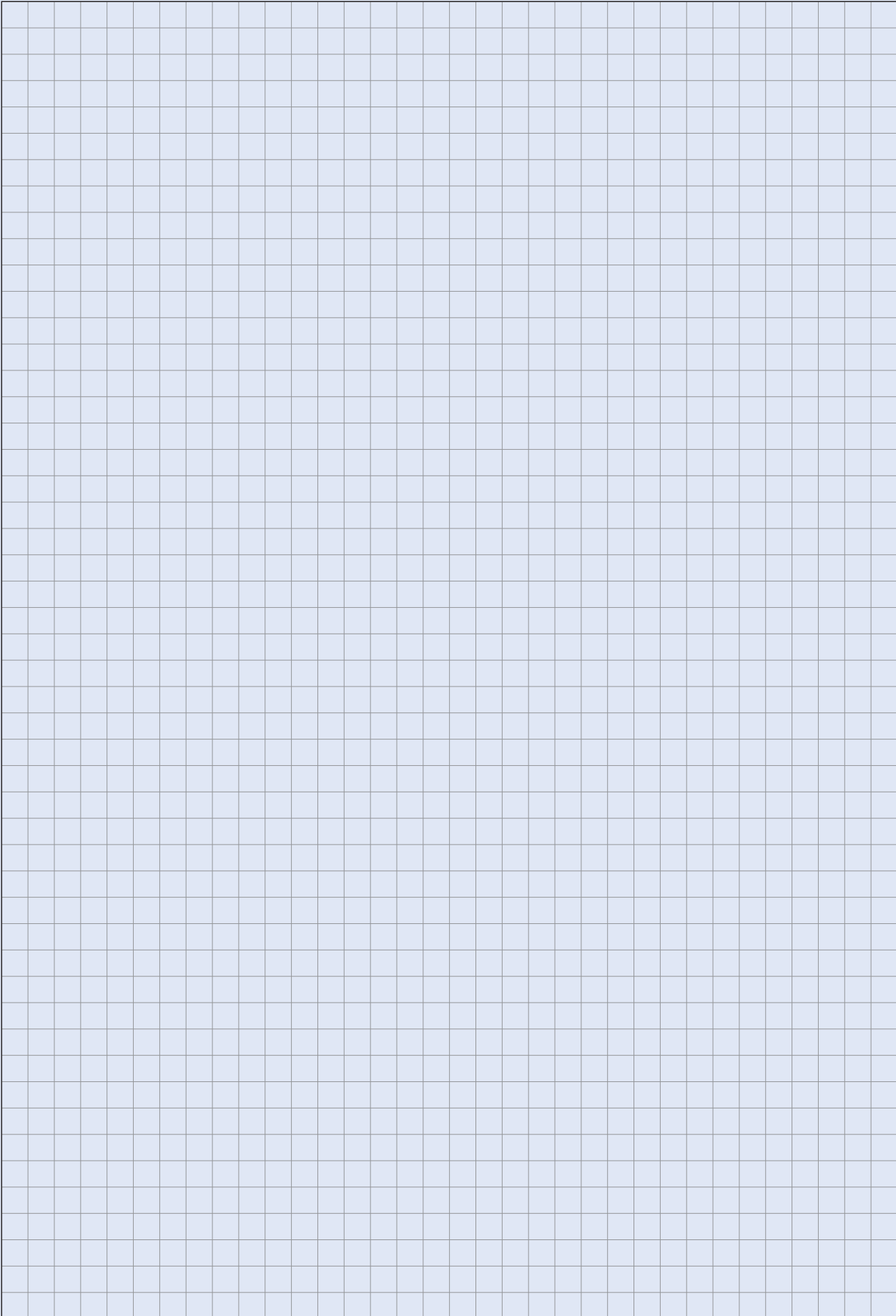
Plinth height 100 mm	Plinth height 200 mm	Cable strain relief rails	Universal profile for different equipment units	Separation panel section/ section	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XAP011006 283832	XAP021006 283846	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122100 *	122114 *				
XAP011206 283834	XAP021206 283848	XAR04 283850	XSMPB20 288997	XPSS2006 284178	
122102 *	122116 *				
XAP011008 283833	XAP021008 283847	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122101 *	122115 *				
XAP011208 283835	XAP021208 283849	XAR06 283851	XSMPB20 288997	XPSS2008 284179	
122103 *	122117 *				

Note

* Finish in special RAL colour

xEnergy Switchboards

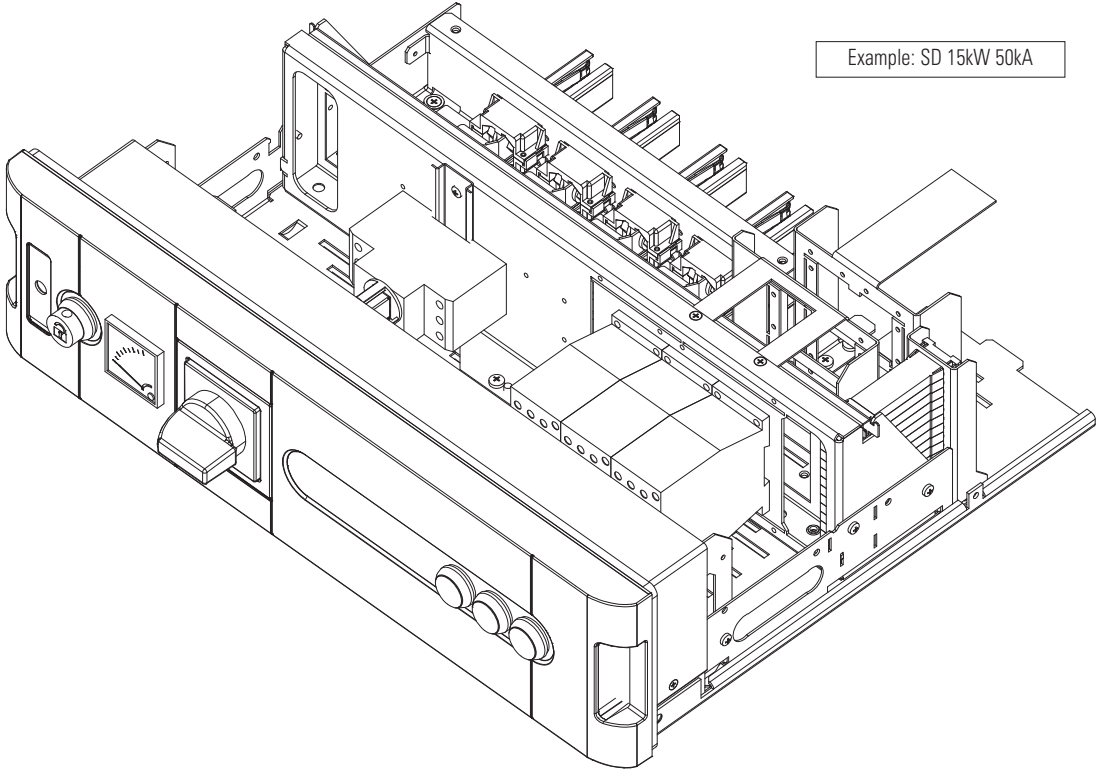
Notes



Drawer Configuration

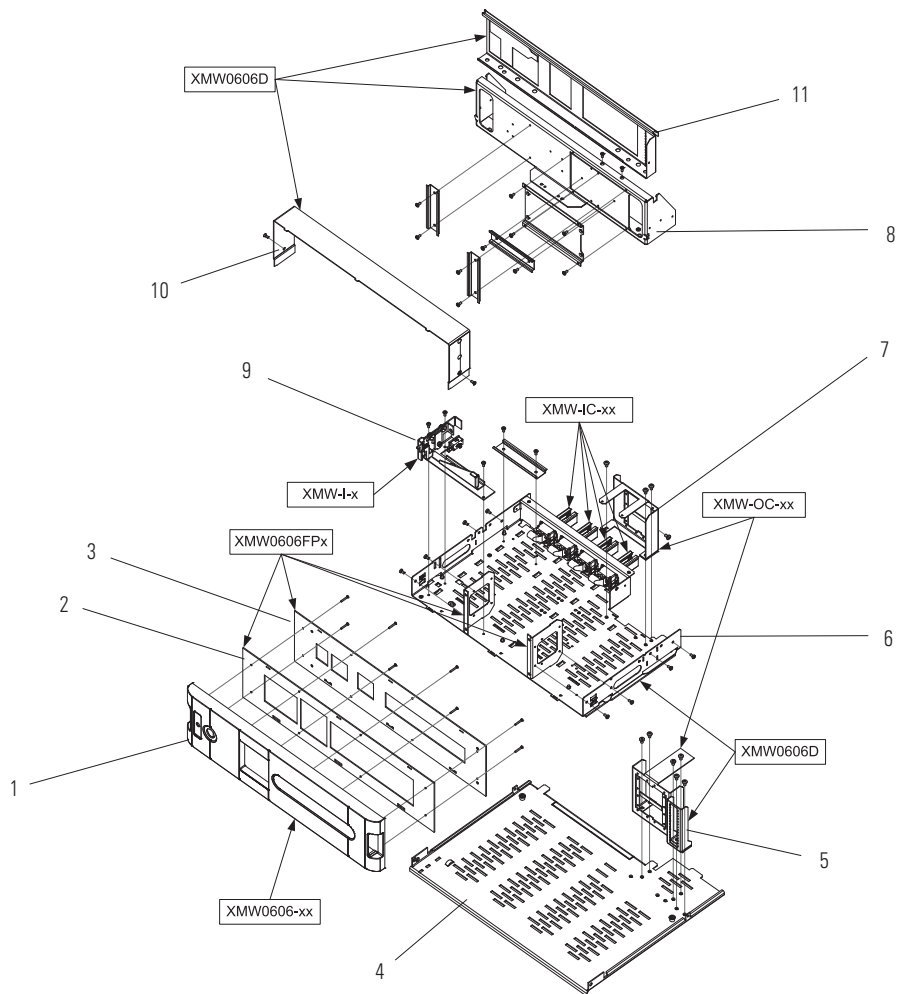
Configuration	Page 226
Individual Parts	Page 228
Accessories	Page 246

MCC_Drawer_Konfig_1



Drawer Configuration Notes on the Features

MCC_Drawer_Merkm_1



- 1 Front panel - PVC
- 2 Sealing
- 3 Front panel - steel
- 4 Shelf-board
- 5 Holder for auxiliary current contacts/
main outgoing contacts
- 6 Base
- 7 Holder for outgoing main current contacts (base)
- 8 Mounting plate
- 9 Mechanical lock
- 10 Position indicator (marked in colour)
- 11 Mounting plate

Features

- Each module can be individually equipped, depending on whether you need a direct starter module or a reverse starter combination. Setup and dimensioning need to be done according to the instructions in the AWA and BA instruction manuals.
- A detailed circuit/wiring diagram provides information on the correct wiring of the switchgear in the module (find it on the page of business partner).
- The front covers of each module come with numerous holes and cut-outs prepared for individual integration of all the controlgear necessary for each module.
- Main current contacting of the modules happens via plug-type contact terminals suitable for the respective rating which are directly mounted on the shelf-board.
- Contacting of control cables happens via a plug-type terminal block reaching directly into the cable connection area, from where it is extremely easy to do the control wiring.
- Suitable terminal labels for auxiliary contacts = "Weidmüller Dekafix 5 mm".

xEnergy Switchboards

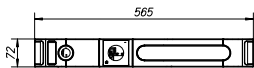
MCC - Drawer Configuration

Overview of the different drawers listed according to module heights and performance (amperage)

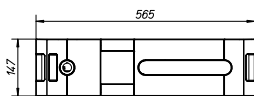
IP31:				IP55:			
Module heights mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage	Module heights mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-32A	16-32A	75	FE3P	16-25A	16-25A
	DOL	3-15kW	0.06-15kW		DOL	3-11kW	0.06-11kW
	FR	3-15kW	0.06-15kW		FR	3-11kW	0.06-11kW
150	FE3P	20-200A	20-200A	150	FE3P	20-160A	20-160A
	FC3P	20-100A	20-100A		FC3P	20-80A	20-80A
	DOL	18.5-45kW	18.5-45kW		DOL	15-37kW	15-37kW
	FR	18.5-22kW	-		FR	15-18.5kW	-
	SD	5.5-15kW	7.5-15kW		SD	5.5-11kW	7.5-11kW
225	FE4P	20-200A	20-200A	225	FE4P	20-160A	20-160A
	FC3P	125A	125A		FC3P	100-125A	100-125A
	FC4P	20-125A	20-125A		FC4P	20-125A	20-125A
	DOL	55-75kW	55-75kW		DOL	45-55kW	45-55kW
	FR	30-75kW	18.5-75kW		FR	22-55kW	15-55kW
	SD	18.5-22kW	-		SD	15-18.5kW	-
	As of a height of 600 mm, it is only possible to create a set-up with fixed modules						
300	FE3P	250A	250A	300	FE3P	200A	200A
	FE4P	250A	250A		FE4P	200A	200A
	FC3P	160-200A	160-200A		FC3P	160A	160A
	DOL	90kW	90kW		DOL	75kW	75kW
	FR	-	-		FR	-	-
	SD	37-75kW	18.5-75kW		SD	22-55kW	15-55kW
450	FE3P	400A	400A	450	FE3P	400A	400A
	FE4P	400A	400A		FE4P	400A	400A
	FC3P	250-300A	250-300A		FC3P	250A	250A
	FC4P	160-300A	160-300A		FC4P	160-250A	160-250A
	DOL	110-160A	110-160A		DOL	90-110A	90-110A
	FR	90-110kW	90-110kW		FR	75-90kW	75-90kW
	As of a height of 600 mm, it is only possible to create a set-up with fixed modules						
600	FE3P	630A	630A	600	FE3P	630A	630A
	FE4P	630A	630A		FE4P	630A	630A
	FC3P	400-630A	400-630A		FC3P	400A	400A
	FC4P	400-630A	400-630A		FC4P	400A	400A
	DOL	200-250kW	200-250kW		DOL	132-200kW	132-200kW
	FR	132-160kW	132-160kW		FR	110kW	110kW
750	SD	90-250kW	90-250kW	750	SD	75-200kW	75-200kW
	FR	200-250kW	200-250kW		FR	132-200kW	132-200kW
	SD	-	250kW		SD	250kW	250kW

Heights and finishes of the modular drawer technology:

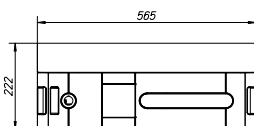
Configurable as energy outgoer, direct starter, reverse starter, star-delta starter



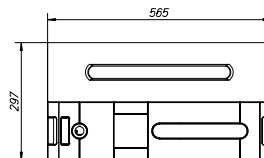
Module height = 75 mm



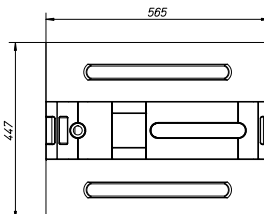
Module height = 150 mm



Module height = 225 mm



Module height = 300 mm



Module height = 450 mm

xEnergy Switchboards

Individual Parts for MCCs: Fitting Kit for Motor Control Centers in Withdrawable Design



VT01511

Suitable for: Cable rail area at the rear, outgoing cable area on the right, in IP31 and IP55, for section widths of 1000/1200 mm

Consisting of: Left and right multi-functional side mounting wall, all profiles necessary for fixing the material, incl. all partitions, all screw material and all cable grommets (KT21 and KT42)

Section depth mm	Fitting kits for Motor Control Centers in withdrawable design module width 600 mm Article No. per unit	Fitting kits for Motor Control Centers in withdrawable design module width 800 mm Article No. per unit	
600	XSMFDB0606-MC 151211	-	
800	-	XSMFDB0608-MC 151212	

Individual Parts for MCCs: Partition to Cable Connection Area



VT01611

Consisting of: Mounting plate for terminal mounting, 2 sheet-metal partition panels, 2 mounting profiles, incl. all screw material

Width mm	Partition to cable connection area Module width 600 mm Article No. per unit unit = 1 set	Partition to cable connection area Module width 800 mm Article No. per unit unit = 1 set	
1000	XPFCB04-MC 151213	-	
1200	-	XPFCB06-MC 151214	

xEnergy Switchboards

Individual Parts for MCCs: Shutter between Switchgear Area and Dropper Bar, from 35 to 80 kA



Consisting of: Sheet-metal partition in 5 parts, incl. plastic parts for contact partition, screw material included

VT02911

Shutter 35 kA, 50 kA and 65 kA	Shutter 80 kA	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XPFDM-65-MC 151215	XPFDM-80-MC 151216	

Individual Parts for MCCs: Lock Cover for Dropper Bar

Consisting of: PVC partition and lock spring, screw material included



VT03411

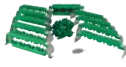
Lock cover for dropper bar		
Article No. per unit unit = 25 pcs.		
XPFDM-A-MC 151217		

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Set of Dropper Bar Supports 1000A

Consisting of: Busbar supports - full and half versions, support for end rail included. Fillers for closing the second rail track in the support, all screws and fixing brackets included.



VT02811

35 kA 1x40x10	50 kA 1x40x10	65 kA 1x40x10	80 kA 1x40x10	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XDSF10-35-MC 151200	XDSF10-50-MC 151201	XDSF10-65-MC 151202	XDSF10-80-MC 151203	

Individual Parts for MCCs: Set of Dropper Bar Supports 2000A

Consisting of: Busbar supports - full and half versions, support for end rail included. Fillers for closing the second rail track in the support, all screws and fixing brackets included.

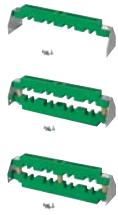


VT02711

35 kA 2x40x10	50 kA 2x40x10	65 kA 2x40x10	80 kA 2x40x10	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XDSF20-35-MC 151204	XDSF20-50-MC 151205	XDSF20-65-MC 151206	XDSF20-80-MC 151207	

xEnergy Switchboards

Individual Parts for MCCs: Individual Dropper Bar Supports



VT03211, VT03011, VT03111

Consisting of: Busbar supports in three different versions (half version, full version suitable for up to 65 kA, full version with extra enhancement for up to 80 kA), all supports come with fixing brackets and screw material

Half version	Full version	Full version for 80 kA	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XDSF-H-E-MC 151208	XDSF-F-65-E-MC 151209	XDSF-F-80-E-MC 151210	

Individual Parts for MCCs: Basic Drawer Module



VT04211

Consisting of: Basic module, shelf-board, mounting plate for PKZ/NZM, mounting plate for auxiliary current contacts, shielding plate in PVC, signalling line/position indicator, incl. all screw and fixing material
Height 600+750mm = fixed design module, front panels need to be ordered separately for all modules (not included in the scope of delivery for drawers, front will be delivered as module door).

Height 75 mm	Height 150 mm	Height 225 mm	Height 300 mm	Height 450 mm	Height 600 mm für NZM	Height 750 mm für NZM	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XMW0306D 155242	XMW0606D 155243	XMW0906D 155244	XMW1206D 155245	XMW1806D 155246	XMW2406F 158538	XMW3006F 158539	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Expansion Sets for Smart Wire-DT

Consisting of: Different DIN rails and mounting brackets, adjusted to the drawer height, incl. all screws



Expansion set H = 75 mm	Expansion set H = 150 mm	Expansion set H = 225 mm	Expansion set H = 300 mm	Expansion set H = 450 mm	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XMW0306SWD 169875	XMW0606SWD 169876	XMW0906SWD 169877	XMW1206SWD 169878	XMW1806SWD 169879	

Individual Parts for MCCs: Expansion Set for Soft Starters

Consisting of: Different DIN rails incl. screws



Expansion set H = 75 mm	Expansion set H = 150 mm	Expansion set H = 225 mm	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XMW0306SS 172204	XMW0306SS 172205	XMW0306SS 172206	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Front Panels for Drawers

In total for 7 RMQ22 units, a rotary drive for the main switch, a 22.5 mm hole for the push button of the mechanical lock.

Consisting of: Plastic front panel, sealing, incl. screw material



VT02111

Height 75 mm Front panel blind	Height 75 mm Front panel with 2 holes of 22.5 mm	Height 75 mm Front panel with cut-out for Simocode	Height 150 mm Front panel for PKZ+NZM	Height 150 mm Front panel for PKZ with 2 holes of 22.5 mm	Height 150 mm Front panel for PKZ with cut-out for Simocode	Height 150 mm Front panel for NZM with 2 holes of 22.5 mm	Height 150 mm Front panel for NZM with cut-out for Simocode
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW0306-FB 152640	XMW0306-2BC 152641	XMW0306-SCC 152642	XMW0606-FB 152643	XMW0606-2BC 152644	XMW0606-SCC 152645	XMW0606-2BC-NZM 152647	XMW0606-SCC-NZM 152648

Individual Parts for MCCs: Opening metal front plates for drawers, version PKZ

Consisting of: Front plate incl. locks, hinges, screws and handle

A factory-applied foam sealing is in place for IP55 applications. Pre-punched holes of 22.5 mm diameter for a total of 7x RMQ.Titan command and signalling devices. One opening for the push-button of the mechanical lock. Drilled holes/cavities for the door-coupling rotary handle are prepared as well. Pre-punched holes that you do not wish to use must be closed with blind plugs. See MCC accessories.



VT08613

VT09813

VT10013

	Height 75 mm	Height 150 mm	Height 225 mm
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31 ventilated	XMW0306CDV 172190 172334 *	XMW0606CDV 172191 172335 *	XMW0906CDV 172193 172319 *
Version IP55 closed	XMW0306CDC 172182 172326 *	XMW0606CDC 172183 172327 *	XMW0906CDC 172185 172329 *

... also for use in the Main Bus Bar Top (BBT) system

Note

* Finish in special RAL colour

xEnergy Switchboards

Individual Parts for MCCs: Opening Metal Fronts for Drawers, for NZM

Consisting of: Front plate incl. locks, hinges, screws and handles

A factory-applied foam sealing is used to meet sealing requirements for IP55. Pre-punched holes of 22.5 mm diameter for 7x RMQTitan command and signalling devices. An opening for the push-button of the mechanical locking system. Openings/cavities for the door-coupling rotary handle are prepared as well. Pre-punched holes you do not wish to use must be closed with blind plugs. See MCC accessories.



	VT09913	VT10113	VT10213	VT10313	VT10413
	Height 150 mm	Height 225 mm	Height 300 mm	Height 450 mm hole for the rotary handle of the main switch in lower third	Height 450 mm hole for the rotary handle of the main switch at the centre
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31 ventilated	XMW0606CDV-NZM 172192 172318 *	XMW0906CDV-NZM 172194 172320 *	XMW1206CDV-NZM 172195 172321 *	XMW1806CDV-NZM-0 172196 172322 *	XMW1806CDV-NZM-190 172197 172323 *
Version IP55 closed	XMW0606CDC-NZM 172184 172328 *	XMW0906CDC-NZM 172186 172330 *	XMW1206CDC-NZM 172187 172331 *	XMW1806CDC-NZM-0 172188 172332 *	XMW1806CDC-NZM-190 172189 172333 *

Individual Parts for MCCs: Module Doors for Fixed Design Modules

Consisting of: Module door, hinges, locking system, incl. screw material.

All doors come with the holes of a rotary door coupling handle, the holes for control lamps or push-buttons are marked so they can easily be drilled whenever required.



wa_vt63113

	Height 600 mm suitable for the lowest position	Height 750 mm suitable for the lowest position	Height 600 mm suitable for the center position	Height 750 mm suitable for the center position
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Version IP31	XMW2406CDV-B 158570 158578 *	XMW3006CDV-B 158572 158580 *	XMW2406CDV-M 158571 158579 *	XMW3006CDV-M 158573 158581 *
Version IP55	XMW2406CDC-B 158574 158582 *	XMW3006CDC-B 158576 158584 *	XMW2406CDC-M 158575 158583 *	XMW3006CDC-M 158577 158585 *

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Individual Parts for MCCs: Steel Front Panels (Substructure for Plastic Front Panel)

Consisting of: Steel front panel, incl. screw material, the IP55 steel front panel comes with a foamed sealing



VT03911

	Height 75 mm Front panel	Height 150 mm Front panel	Height 225 mm Front panel	Height 300 mm Front panel	Height 450 mm Front panel	
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
Version IP31	XMW0306FP 152686	XMW0606FP 152687	XMW0906FP 152688	XMW1206FP 152689	XMW1806FP 152690	
Version IP55	XMW0306FPC 155281	XMW0606FPC 155282	XMW0906FPC 155283	XMW1206FPC 155284	XMW1806FPC 155285	

Individual Parts for MCCs: Mounting Plates for the Drawer

Consisting of: Mounting plate for NZM/PKZ, mounting plate for auxiliary current contacts, mounting plate for contactor, incl. screw material



VT02011

	Height 75 mm Mounting plate	Height 150 mm Mounting plate	Height 225 mm Mounting plate	Height 300 mm Mounting plate	Height 450 mm Mounting plate	Height 600 mm Mounting plate	Height 750 mm Mounting plate	
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
	XMW0306M 152663	XMW0606M 152664	XMW0906M 152665	XMW1206M 152666	XMW1806M 152667	-	-	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Empty-space Cover

Consisting of: Empty-space cover, fixing bracket, shelf-board, incl. screw material



VT08406

	Height 75 mm	Height 150 mm	Height 225 mm	Height 300 mm	Height 450 mm	
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
Version IP31 Front panel ventilated	XMW0306E-V 152670	XMW0606E-V 152671	XMW0906E-V 152672	XMW1206E-V 152673	XMW1806E-V 152674	
Version IP55 Front panel closed	XMW0306E-C 152678	XMW0606E-C 152679	XMW0906E-C 152680	XMW1206E-C 152681	XMW1806E-C 152682	

Individual Parts for MCCs: Shelf-board

Consisting of: Shelf-board, incl. screw material



VT01811

	Shelf-board IP 2x	Shelf-board for fixed design module IP 2x	Shelf-board for modules with H = 450 mm IP 2x	
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
	XMW-DP 152669	XMW-DP-F 168125	XMW-DP-18 168124	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Mechanical Lock

Consisting of: Push-button, micro switch, mechanical parts, Bowden cable (with NZM3 / H = 450 mm), incl. screw material



VT02311

For drawer height 75 mm for PKZM0, PKE	For drawer height 150-225 mm for PKZM0, PKZM4, PKE	For drawer height 150, 225, 300 mm for NZM1	For drawer height 150, 225, 300 mm for NZM2	For drawer height 450 mm for NZM3	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XMW-I-1 155247	XMW-I-2 155248	XMW-I-5 168929	XMW-I-6 168930	XMW-I-3 155249	

Individual Parts for MCCs: Bowden Cable

Consisting of: Bowden cable

for NZM 600 mm	
Article No. per unit unit = 1 pc.	
XMW-I-BD600 155545	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Unlocking device



Unlocking device for modules with height 225, 300 and 450 mm.
Consisting of: uplock hook/spring, incl. screws

VT09213

Unlocking device

Article No.
per unit
unit = 1 set

XMW-L
172177

Individual Parts for MCCs: Push-button

Consisting of: Lockable push-button (RMQ-Titan)



VT05211

Push-button

Article No.
per unit
unit = 1 pc.

M22-DLVHS-W-MCC
153567

Individual Parts for MCCs: Micro Switch



Consisting of: Micro switch (contacting via a 6.3 mm flat-type connector), incl. screw material

VT04711

Micro switch

Article No.
per unit
unit = 1 pc.

XMW-MS
152668

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Incoming Main Current Contacts, 3 or 4 poles



Consisting of: Drawer contacts incl. fixing screws for outgoing cable, insulating cups, incl. extra fixing brackets for 630 A and higher

VT03311

3 poles up to 100 A	3 poles up to 315 A	3 poles up to 630 A incl. fixing brackets	3 poles up to 630 A incl. fixing brackets for fixed design modules	4 poles up to 100 A	4 poles up to 315 A	4 poles up to 630 A incl. fixing brackets	4 poles up to 630 A incl. fixing brackets for fixed design modules
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
XMW-IC-100-3 151354	XMW-IC-315-3 151355	XMW-IC-630-3 151356	XMW-ICL-630-3 155401	XMW-IC-100-4 151357	XMW-IC-315-4 151358	XMW-IC-630-4 151359	XMW-ICL-630-4 155402

Individual Parts for MCCs: Encoding Pin Set



It is used for clear encoding/assignment of the individual drawers to their correct shelf board. So it is impossible to put a drawer back in the wrong order.
There are 10 encoding possibilities available.
Consisting of: 5 pcs. of metal pins, incl. screws

VT09113

Assignment Pin Set	
Article No. per unit unit = 5 pcs.	
XMW-CP 172198	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Outgoing Main Current Contacts 3, 4 or 6 poles

Consisting of: Jack and connector, incl. 2 fixing brackets and screw material



VT03511

	Up to 40 A 2.5-6 mm ² Article No. per unit unit = 1 set	Up to 40 A 6-10 mm ² Article No. per unit unit = 1 set	Up to 100 A 10-25 mm ² Article No. per unit unit = 1 set	Up to 100 A 16-35 mm ² Article No. per unit unit = 1 set		
3+4-poles	XMW-OC-40-2,5-6 152649	XMW-OC-40-6-10 152650	XMW-OC-100-10-25 152651	XMW-OC-100-16-35 152652		
	Up to 200 A 25-40 mm ² Article No. per unit unit = 1 set	Up to 200 A 40-70 mm ² Article No. per unit unit = 1 set	Up to 350 A H = 300 mm Article No. per unit unit = 1 set	Up to 350 A H = 450 mm Article No. per unit unit = 1 set	Up to 650 A Article No. per unit unit = 1 set	
3 poles	XMW-OC-200-25-40-3 152653	XMW-OC-200-40-70-3 152654	XMW-OC-350-M10-3-300MM 155261	XMW-OC-350-M10-3-450MM 155262	XMW-OC-650-M12-3 155263	
	Up to 200 A 25-40 mm ² Article No. per unit unit = 1 set	Up to 200 A 40-70 mm ² Article No. per unit unit = 1 set	Up to 350 A H = 300 mm Article No. per unit unit = 1 set	Up to 350 A H = 450 mm Article No. per unit unit = 1 set	Up to 650 A Article No. per unit unit = 1 set	
4 poles	XMW-OC-200-25-40-4 152655	XMW-OC-200-40-70-4 152656	XMW-OC-350-M10-4-300MM 155264	XMW-OC-350-M10-4-450MM 155265	XMW-OC-650-M12-4 155266	
	Up to 40 A 2.5-6 mm ² Article No. per unit unit = 1 set	Up to 40 A 6-10 mm ² Article No. per unit unit = 1 set	Up to 100 A 10-25 mm ² Article No. per unit unit = 1 set	Up to 100 A 16-35 mm ² Article No. per unit unit = 1 set	Up to 200 A 25-40 mm ² Article No. per unit unit = 1 set	Up to 200 A 40-70 mm ² Article No. per unit unit = 1 set
6 poles	XMW-OC-40-2,5-6-6 155267	XMW-OC-40-6-10-6 155268	XMW-OC-100-10-25-6 155269	XMW-OC-100-16-35-6 155270	XMW-OC-200-25-40-6 155271	XMW-OC-200-40-70-6 155272

Suitable for Drawer with height 150 mm to 300 mm

	Up to 40 A 2.5-6 mm ² Article No. per unit unit = 1 set	Up to 40 A 6-10 mm ² Article No. per unit unit = 1 set	Up to 100 A 10-25 mm ² Article No. per unit unit = 1 set		
3+4 poles	-	XMW-OC-40-6-10-150-300MM 167560	XMW-OC-100-10-25-150-300MM 167561		
6 poles	XMW-OC-40-2,5-6-150-300MM 167562	XMW-OC-40-6-10-6-150-300MM 167563	-		

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Mounting Brackets for Outgoing Main Current Contacts



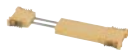
VT04511

Consisting of: 2 support brackets (1x for drawer, 1x for shelf-board), incl. screw material

Up to 40 A	Up to 200 A	Up to 350 A H = 300 mm	350 and 650 A H = 450 mm	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XMW-OC-M-1 152659	XMW-OC-M-2 152660	XMW-OC-M-3 155273	XMW-OC-M-4 155274	

Individual Parts for MCCs: Auxiliary Current Contacts

Consisting of: 2-pole jack and connector
Suitable terminal label: Weidmüller
Dekafix 5 mm



VT04911



VT03113

VT02913

VT03013

Consisting of: Auxiliary current jack and connector,
Weidmüller double plug-type terminal 1.5 mm² +
cover plate, cable connection DR. H05V-K YF 0,75
mm² orange, length = 400 mm

2 poles	2 poles no terminal labelling	12 poles terminal labelling on both sides	24 poles terminal labelling on both sides	
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
XMW-AC-1 155540	XMW-AC-1-2 171641	XMW-AC-1-12 171642	XMW-AC-1-24 171643	

Individual Parts for MCCs: Fixing Clip for Auxiliary Current Contacts

Consisting of: 2 small clip plates



VT05011

Fixing clip	
Article No. per unit unit = 50 pcs.	
XMW-AC-1-S 155541	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Auxiliary Current Relief Rails - Horizontal

Rated voltage 400/415 V AC

Height mm	Depth mm	Width mm	Aux. current relief rails horizontal 2-pole Article No. per unit unit = 1 pc.	Aux. current relief rails horizontal 4-pole Article No. per unit unit = 1 pc.	
all	all	400	+MD-HI04H-632 043698	+MD-HI04H-634 044041	
		600	+MD-HI06H-632 043715	+MD-HI06H-634 045324	
		800	+MD-HI08H-632 043740	+MD-HI08H-634 045384	
		1000	+MD-HI10H-632 044018	+MD-HI10H-634 045418	
		1200	+MD-HI12H-632 070064	+MD-HI12H-634 070065	
		1400	+MD-HI14H-632 135551	+MD-HI14H-634 135552	

Individual Parts for MCCs: Auxiliary Current Relief Rails - Vertical

Rated voltage 400/415 V AC

Height mm	Depth mm	Width mm	Aux. current relief rails vertical 2-pole Article No. per unit unit = 1 pc.	Aux. current relief rails vertical 4-pole Article No. per unit unit = 1 pc.	
all	all	all	+MD-HI19V-322 043651	+MD-HI19V-324 043675	

... also for use in the Main Bus Bar Top (BBT) system

Notes Connection to the horizontal auxiliary current rail is included in the scope of delivery. The auxiliary current connector of the drawers is designed for a max. of 10 A.

xEnergy Switchboards

Individual Parts for MCCs: Connecting Plug for Auxiliary Current Relief Rails

Connecting plug for auxiliary
current relief rails
63 A

Article No.
per unit
unit = 1 pc.

+MD-HI-S631
045592

Individual Parts for MCCs: Auxiliary Current Connection

Section-Section, 2-pole, for 4-pole rails please order 2x

Auxiliary current connection

Article No.
per unit
unit = 1 pc.

+MD-HI-VB632
093519

Individual Parts for MCCs: Edge Protective Strip

For steel sheet thickness up to max. 1.6 mm

Edge protective strip
KG016

Article No.
per unit
unit = 10 m

XAK16
172203

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Set of Cover Strips

Consisting of: 2 cover strips, 4 fixing brackets, incl. screw material
For IP31= ventilated, IP55 closed



VT02211

Top and bottom strip IP31	Top and bottom strip IP55	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XMCTB-V-MC 151218	XMCTB-C-MC 151219	

Individual Parts for MCCs: Fixing Set for the Earthing Bar in the Cable Connection Area

Consisting of: 3 bolts M10, 3 hexagon nuts M10,
3 spring washers M10



VT03711

Fixing set for earthing bar	
Article No. per unit unit = 1 set	
XDSFP-MC 151220	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Individual Parts for MCCs: Fixing Set for the Neutral Conductor Bar in the Cable Connection Area

Consisting of: 3 threaded plates M10, 3 threaded pins M10x30, 3 insulators H = 40mm



VT03611

Fixing set for neutral conductor bar	Isolator M12 H = 50 mm	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XDSFN-MC 151221	XNNIP-50-M12 167559	

Individual Parts for MCCs: Label Carriers for MCC Modules

Suitable for lamps/push-buttons of the RMQ series Ø 22.5 mm



VT01012

Label carriers	
Article No. per unit unit = 10 pcs.	
XMW-M22-LPA 158617	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories: Terminals

Including label tags for terminals of type U, V, W - X, Y, Z - L1, L2, L3 - T1, T2, T3 - PE, N, PEN.
 External connection for round or sector-shaped conductors, other end for a flat Cu strip (Cu bar).
 Suitable for copper and aluminium conductors.
 Types ...BR for round or sector-shaped cable connection on both ends.



wa_sg02913

	1 pole	3 poles	4 poles	5 poles	1 pole not suitable for Cu strip or Cu bar
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
$I_e = 160 \text{ A}$	K95/1N 010773	K95/3 025017	K95/4 027390	K95/5 029763	K95/1N/BR 012336
$I_e = 250 \text{ A}$	K150/1 089085	K150/3 032136	K150/4 034509	K150/5 036882	K150/1/BR 014709
$I_e = 400 \text{ A}$	K240/1 091458	K240/3 039255	K240/4 041628	K240/5 044001	K240/1/BR 017082
$I_e = 630 \text{ A}$	K2X240/1 093831	K2X240/3 046374	K2X240/4 048747	K2X240/5 051120	K2X240/1/BR 019455

Accessories: Conversion Kits for Connection Terminals (for one conductor)

Can be used for one conductor.
 For conversion from a flat strip to a cable connection.



VT10408

	For K95/... $I_e = 160 \text{ A}$	For K150/... $I_e = 250 \text{ A}$	For K240/... $I_e = 400 \text{ A}$	For K2X240/... $I_e = 630 \text{ A}$
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
	D-K95 020277	D-K150 022650	D-K240 025023	D-2X240 027396

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories: Conversion Kits for Connection Terminals (for one Auxiliary Conductor)



Can be used for one auxiliary conductor.
M4 screw with thrust washer.
Cross section of connections 0.5 to 2.5 mm².

VT10408

For K95/... and K150/...	For K240/...	For K2X240/...	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
HK-K95-K150 001916	HK-K240 098585	HK-K2X240 010785	

Accessories: Terminal Covers - 5 poles



Incl. warning sign.
According to DIN (lightning flash symbol).
By splitting the block, you will get terminal covers for 3 or 4 poles.

wa_vt23613

For K95/...	For K150/...	For K240/...	For K2X240/...	
Article No. per unit unit = 4 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
H-K95/5 036888	H-K150/5 039261	H-K240/5 041634	H-K2X240/5 044007	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories: Cable Ducts - screw-fixed



Delivery length: 1500 mm

VT08309, VT08709

Width = 34 mm Height = 37 mm	Width = 34 mm Height = 63 mm	Width = 73 mm Height = 63 mm	
Article No. per unit unit = 60 pcs.	Article No. per unit unit = 40 pcs.	Article No. per unit unit = 20 pcs.	
KL25/35 012531	KL25/60 017277	KL60/60 029142	

Accessories: Cable Ducts - self-adhesive



Delivery length: 650 mm.
Ambient temperature max. +55°C.

VT08309, VT08709

Width = 34 mm Height = 37 mm	
Article No. per unit unit = 50 pcs.	
KL25/35K 014904	

Accessories: Cover for Cable Duct



Delivery length: 1500 mm
Delivered as a spare part.

VT08709

Width = 34 mm Height = 14 mm	Width = 73 mm Height = 14 mm	
Article No. per unit unit = 60 pcs.	Article No. per unit unit = 40 pcs.	
KD25 019649	KD60 024395	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories: Universal Conductor Connection Terminal 10 mm

With integrated retention spring, captive terminal screw.
For 10 mm thick flat rails.



VT13806

16 mm²
I_e = 180 A

Article No.
per unit
unit = 100 pcs.

AKU16/10
107191



VT13706

35 mm²
I_e = 270 A

Article No.
per unit
unit = 50 pcs.

AKU35/10
107192



VT13606

70 mm²
I_e = 400 A
also for double
T-profile

Article No.
per unit
unit = 25 pcs.

AKU70/10
107193



VT13506

120 mm²
I_e = 440 A
also for double
T-profile

Article No.
per unit
unit = 25 pcs.

AKU120/10
107194

Accessories: Cable Grommets



VT33710

PG21
Drill hole diameter 29.5 mm
Outer cable diameter 12.5-20 mm

Article No.
per unit
unit = 1 pc.

KT21
026777

PG42
Drill hole diameter 55 mm
Outer cable diameter 18-47 mm

Article No.
per unit
unit = 1 pc.

KT42
038642

For a wall thickness from 2 to 8 mm
RAL 7035
Soft PVC, cadmium and lead-free
IP66, with cable insertion from the bottom

Accessories: Blind Plug

RAL 7035
IP67
For diameter 22.5 mm

PG16

Article No.
per unit
unit = 50 pcs.

M22-M
216388

... also for use in the Main Bus Bar Top (BBT) system

Accessories: Label Tags



VT04811

kW	0,06 Article No. per unit unit = 10 pcs.	0,09 Article No. per unit unit = 10 pcs.	0,12 Article No. per unit unit = 10 pcs.	0,18 Article No. per unit unit = 10 pcs.	0,25 Article No. per unit unit = 10 pcs.	0,37 Article No. per unit unit = 10 pcs.	0,55 Article No. per unit unit = 10 pcs.
Label tags DOL	XANP-MC-DOL0,06KW 155291	XANP-MC-DOL0,09KW 155292	XANP-MC-DOL0,12KW 155293	XANP-MC-DOL0,18KW 155294	XANP-MC-DOL0,25KW 155295	XANP-MC-DOL0,37KW 155296	XANP-MC-DOL0,55KW 155297
kW	0,06 Article No. per unit unit = 10 pcs.	0,09 Article No. per unit unit = 10 pcs.	0,12 Article No. per unit unit = 10 pcs.	0,18 Article No. per unit unit = 10 pcs.	0,25 Article No. per unit unit = 10 pcs.	0,37 Article No. per unit unit = 10 pcs.	0,55 Article No. per unit unit = 10 pcs.
Label tags FR	XANP-MC-FR0,06KW 155320	XANP-MC-FR0,09KW 155321	XANP-MC-FR0,12KW 155322	XANP-MC-FR0,18KW 155323	XANP-MC-FR0,25KW 155324	XANP-MC-FR0,37KW 155325	XANP-MC-FR0,55KW 155326
kW	5,5 Article No. per unit unit = 10 pcs.	7,5 Article No. per unit unit = 10 pcs.	11 Article No. per unit unit = 10 pcs.	15 Article No. per unit unit = 10 pcs.	18,5 Article No. per unit unit = 10 pcs.	22 Article No. per unit unit = 10 pcs.	30 Article No. per unit unit = 10 pcs.
Label tags SD	XANP-MC-SD5,5KW 155349	XANP-MC-SD7,5KW 155350	XANP-MC-SD11KW 155351	XANP-MC-SD15KW 155352	XANP-MC-SD18,5KW 155353	XANP-MC-SD22KW 155354	XANP-MC-SD30KW 155355
A	20 Article No. per unit unit = 10 pcs.	25 Article No. per unit unit = 10 pcs.	32 Article No. per unit unit = 10 pcs.	40 Article No. per unit unit = 10 pcs.	50 Article No. per unit unit = 10 pcs.	63 Article No. per unit unit = 10 pcs.	80 Article No. per unit unit = 10 pcs.
Label tags FE	XANP-MC-FE20A 155366	XANP-MC-FE25A 155367	XANP-MC-FE32A 155368	XANP-MC-FE40A 155369	XANP-MC-FE50A 155370	XANP-MC-FE63A 155371	XANP-MC-FE80A 155372
A	20 Article No. per unit unit = 10 pcs.	25 Article No. per unit unit = 10 pcs.	32 Article No. per unit unit = 10 pcs.	40 Article No. per unit unit = 10 pcs.	50 Article No. per unit unit = 10 pcs.	63 Article No. per unit unit = 10 pcs.	80 Article No. per unit unit = 10 pcs.
Label tags FC	XANP-MC-FC20A 155383	XANP-MC-FC25A 155384	XANP-MC-FC32A 155385	XANP-MC-FC40A 155386	XANP-MC-FC50A 155387	XANP-MC-FC63A 155388	XANP-MC-FC80A 155389
Label tag - blank	XANP-MC-EMPTY 155400						

... also for use in the Main Bus Bar Top (BBT) system

0,75	1,1	1,5	2,2	3	4	5,5	7,5
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XANP-MC-DOL0,75KW 155298	XANP-MC-DOL1,1KW 155299	XANP-MC-DOL1,5KW 155300	XANP-MC-DOL2,2KW 155301	XANP-MC-DOL3KW 155302	XANP-MC-DOL4KW 155303	XANP-MC-DOL5,5KW 155304	XANP-MC-DOL7,5KW 155305
0,75	1,1	1,5	2,2	3	4	5,5	7,5
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XANP-MC-FR0,75KW 155327	XANP-MC-FR1,1KW 155328	XANP-MC-FR1,5KW 155329	XANP-MC-FR2,2KW 155330	XANP-MC-FR3KW 155331	XANP-MC-FR4KW 155332	XANP-MC-FR5,5KW 155333	XANP-MC-FR7,5KW 155334
37	45	55	75	90	110	132	160
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XANP-MC-SD37KW 155356	XANP-MC-SD45KW 155357	XANP-MC-SD55KW 155358	XANP-MC-SD75KW 155359	XANP-MC-SD90KW 155360	XANP-MC-SD110KW 155361	XANP-MC-SD132KW 155362	XANP-MC-SD160KW 155363
100	125	160	200	250	300	320	400
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XANP-MC-FE100A 155373	XANP-MC-FE125A 155374	XANP-MC-FE160A 155375	XANP-MC-FE200A 155376	XANP-MC-FE250A 155377	XANP-MC-FE300A 155378	XANP-MC-FE320A 155379	XANP-MC-FE400A 155380
100	125	160	200	250	300	400	630
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XANP-MC-FC100A 155390	XANP-MC-FC125A 155391	XANP-MC-FC160A 155392	XANP-MC-FC200A 155393	XANP-MC-FC250A 155394	XANP-MC-FC300A 155395	XANP-MC-FC400A 155397	XANP-MC-FC630A 155399

... also for use in the Main Bus Bar Top (BBT) system

11	15	18,5	22	30	37	45	55
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XANP-MC-DOL11KW 155306	XANP-MC-DOL15KW 155307	XANP-MC-DOL18,5KW 155308	XANP-MC-DOL22KW 155309	XANP-MC-DOL30KW 155310	XANP-MC-DOL37KW 155311	XANP-MC-DOL45KW 155312	XANP-MC-DOL55KW 155313
11	15	18,5	22	30	37	45	55
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XANP-MC-FR11KW 155335	XANP-MC-FR15KW 155336	XANP-MC-FR18,5KW 155337	XANP-MC-FR22KW 155338	XANP-MC-FR30KW 155339	XANP-MC-FR37KW 155340	XANP-MC-FR45KW 155341	XANP-MC-FR55KW 155342
200	250						
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.						
XANP-MC-SD200KW 155364	XANP-MC-SD250KW 155365						
630							
Article No. per unit unit = 10 pcs.							
XANP-MC-FE630A 155382							

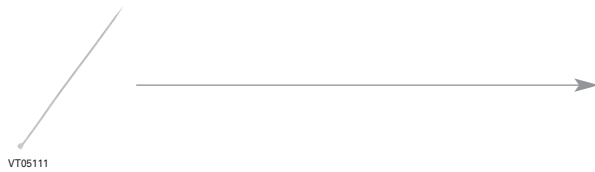
... also for use in the Main Bus Bar Top (BBT) system

75	90	110	132	160	200		
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.		
XANP-MC-DOL75KW 155314	XANP-MC-DOL90KW 155315	XANP-MC-DOL110KW 155316	XANP-MC-DOL132KW 155317	XANP-MC-DOL160KW 155318	XANP-MC-DOL200KW 155319		
75	90	110	132	160	200		
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.		
XANP-MC-FR75KW 155343	XANP-MC-FR90KW 155344	XANP-MC-FR110KW 155345	XANP-MC-FR132KW 155346	XANP-MC-FR160KW 155347	XANP-MC-FR200KW 155348		

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories: Cable Tie Wraps



Length = 98 mm	Length = 140 mm	Length = 2005 mm	
Article No. per unit unit = 1000 pcs.	Article No. per unit unit = 1000 pcs.	Article No. per unit unit = 100 pcs.	
ITB1 083550	ITB2 085923	ITB3 088296	

Accessories: DIN Rail

When used as a PE conductor, the short-circuit strength corresponds to a 16 mm² Cu conductor
Delivery length = 2 m

DIN rail	
Article No. per unit unit = 20 pcs.	
TS35X7,5 053030	

Accessories: Mounting Brackets, inclined

For mounting TS35X7,5 or TS35X15 support rails in an inclined position. Sheet steel, zinc-plated .



VT16310

Mounting Brackets, inclined	
Article No. per unit unit = 100 pcs.	
TS1-BRA-CS 138772	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories: Cable Guidance Clips



Cable holder with fixing anchor (halogen-free)
 Drill hole for fixing = Ø 4.7 mm
 Max. number of cables in a bundle = 20 x 11 mm

VT01112

Cable guidance clips

Article No.
 per unit
 unit = 100 pcs.

XACACLIP
 166691

Accessories: Design Strip - Rain Top



To reach IP31 with drawers in test position or in open position you need to use a protruding design strip (rain shield). So the drawers are protected against vertical dripping water.
 Without a rain shield you will reach IP30.

VT04111

Width = 1000 mm

Width = 1200 mm

Article No.
 per unit
 unit = 1 pc.

Article No.
 per unit
 unit = 1 pc.

XSDR10-X1-B
 155542

XSDR12-X1-B
 155543

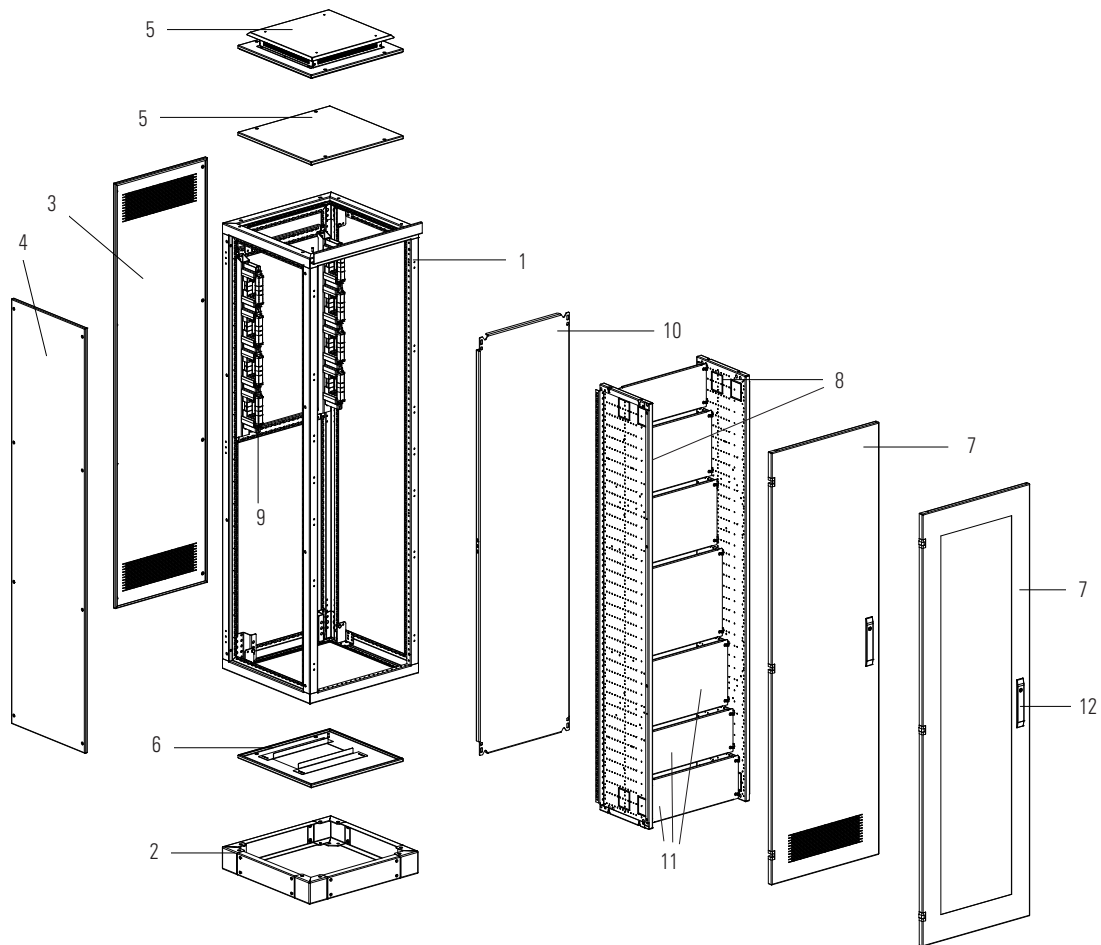
... also for use in the Main Bus Bar Top (BBT) system

XG = Empty sections for general equipment

General sections for mounting plates/IVS/xBoard Profi Plus installation	Page 258
General section for power factor correction units from Frako	Page 270
General section for power factor correction units from KBR	Page 278

General Mounting Units

XE_kat_5-1



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door/glass door
- 8 Universal mounting plate
- 9 Support for main busbar
- 10 Mounting plate as high as section
- 11 Mounting plate in different heights
- 12 Lock mechanism

Features

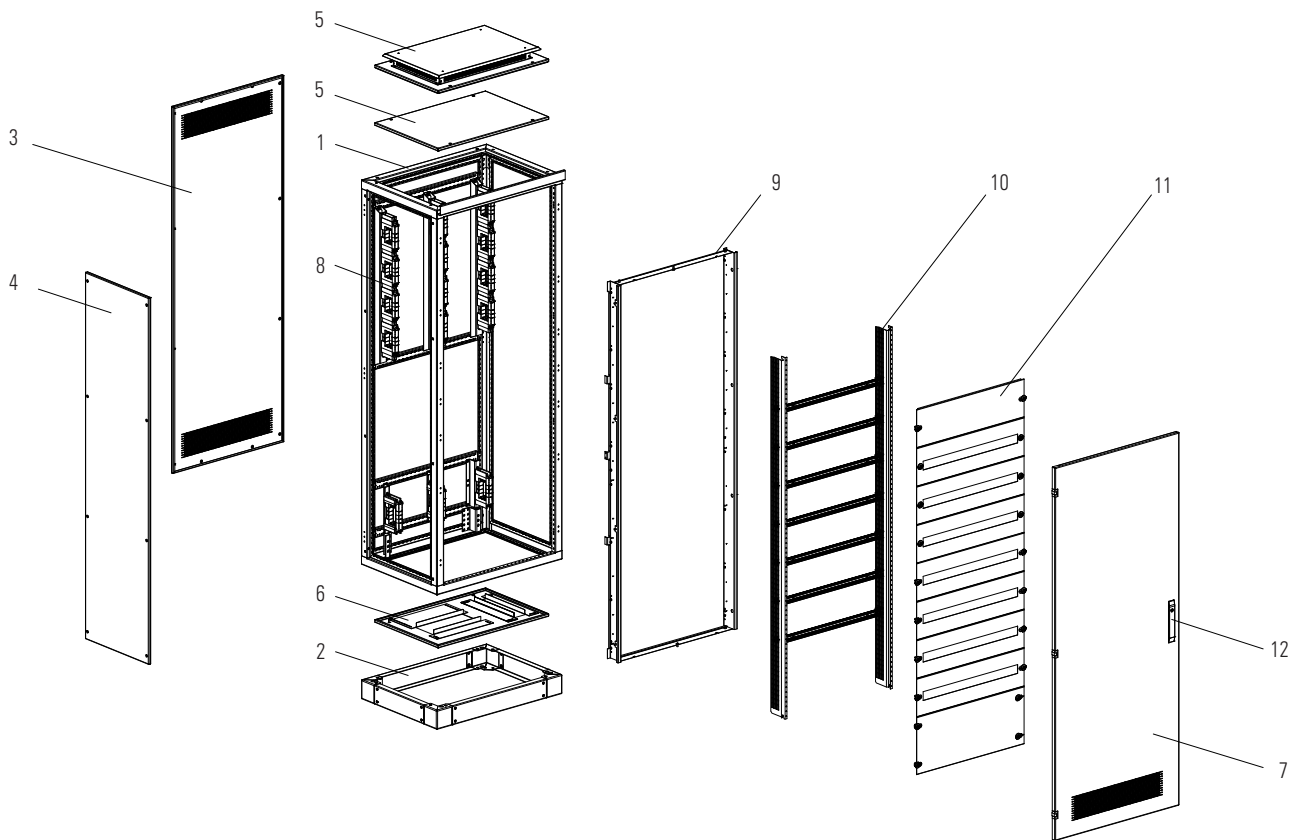
- Individual fixed mounting units on mounting plates
- Control technology - you can install mounting plates as high as the section or split ones
- Section height 2000 mm
- Section depths of 400/600/800 mm
- Section widths of 425/600/800/1000/1200 mm
- IP31/55

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to provide for the required degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

xBoard Profi+ Mounting Units

Katalog 4-1_XBH



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Support for main busbar
- 9 Fitting frame
- 10 Mounting insert
- 11 Front panels
- 12 Lock mechanism

Features

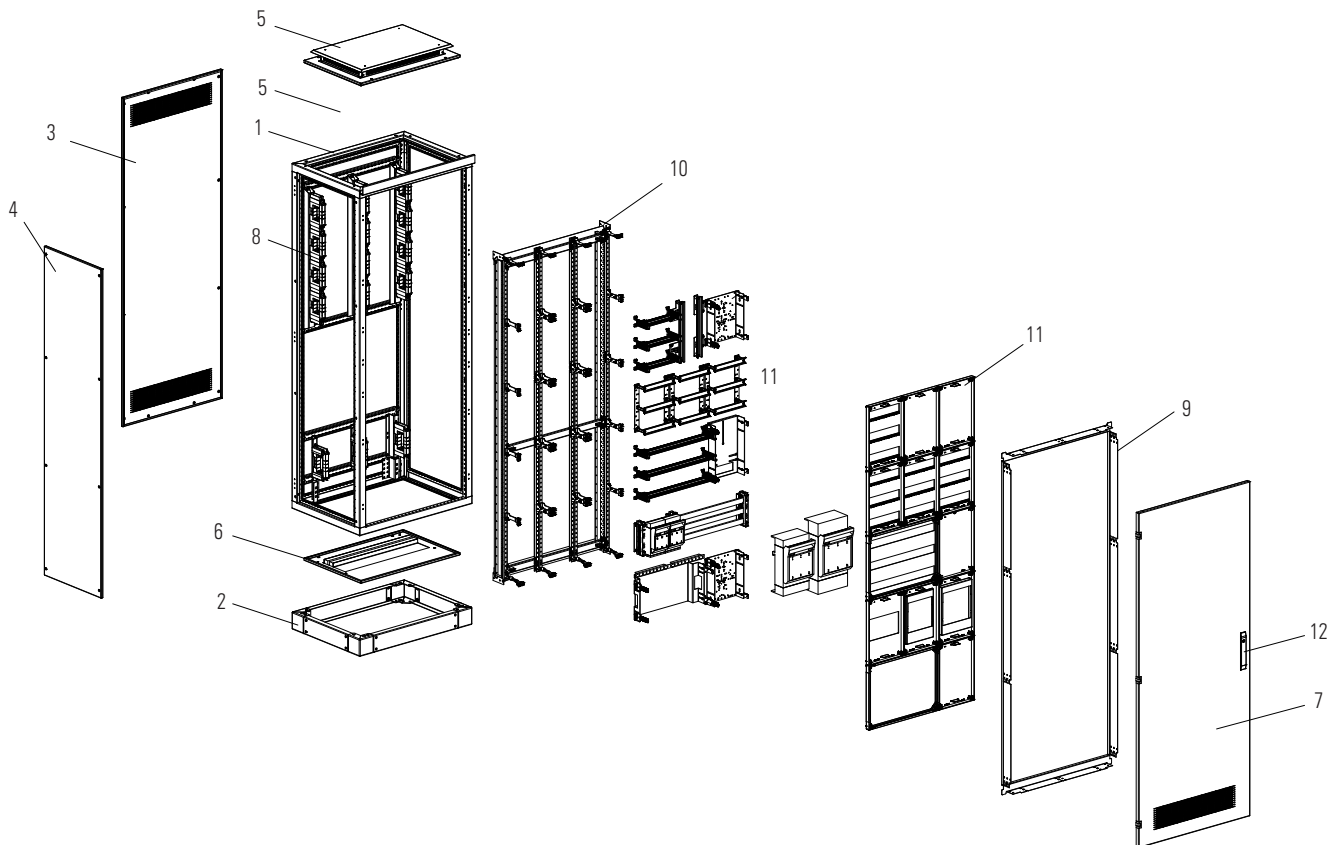
- Section height 2000 mm
- Section depths of 400/600/800 mm
- Section widths of 425/600/800/1000/1200 mm
- IP31/55
- Mounting systems for xBoard Profi+ devices for modular installation

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to provide for the required degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

IVS Mounting Units

Katalog 4-1-IVS



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door
- 8 Support for main busbar
- 9 Fitting frame
- 10 Mounting insert
- 11 Front panels
- 12 Lock mechanism

Features

- Section height 2000 mm
- Section depths of 400/600/800 mm
- Section widths of 425/600/800/1000/1200 mm
- IP31/55
- Mounting systems for xBoard Profi+ devices for modular installation

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Where cover plates in several parts are used, it may be necessary to provide for the required degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

General Mounting Units, Main Busbars rear-mounted (HSS)



VT19310, wa_vt28213



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



wa_vt71913



VT00109

Section depth mm	Section width mm	Frames	Vertical profiles	Crossbar for bar support	Support for main busbar	Busbar support for PEN	Separation p. main busbar area/ switchgear area	Fitting kit ¹⁾ multi-functional support panels for HSH, only necessary where several mounting plates are used
		Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
400	425	XSFB0404 284231	XSFH20 284245	XBBB04 283859	see page xx	XBSP 283872	XPFCB04/06 110265	XSMIB20-1 107292
		122274 *	122288 *					
	600	XSFB0604 284234	XSFH20 284245	XBBB06 283860	see page xx	XBSP 283872	XPFCB04/06 110265	XSMIB20-1 107292
		122277 *	122288 *					
800	XSFB0804 284237	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XPFCB08/10 110266	XSMIB20-1 107292	
	122280 *	122288 *						
1000	XSFB1004 284240	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	XPFCB08/10 110266	XSMIB20-1 107292	
	122283 *	122288 *						
600	425	XSFB0406 284232	XSFH20 284245	XBBB06 283860	see page xx	XBSP 283872	XPFCB04/06 110265	XSMIB20 284257
		122275 *	122288 *					
	600	XSFB0606 284235	XSFH20 284245	XBBB06 283860	see page xx	XBSP 283872	XPFCB04/06 110265	XSMIB20 284257
		122278 *	122288 *					
800	XSFB0806 284238	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XPFCB08/10 110266	XSMIB20 284257	
	122281 *	122288 *						
1000	XSFB1006 284241	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	XPFCB08/10 110266	XSMIB200 284257	
	122284 *	122288 *						
1200	XSFB1206 284243	XSFH20 284245	XBBB12 283863	see page xx	XBSP 283872	XPFCB12 110267	XSMIB20 284257	
	122286 *	122288 *						

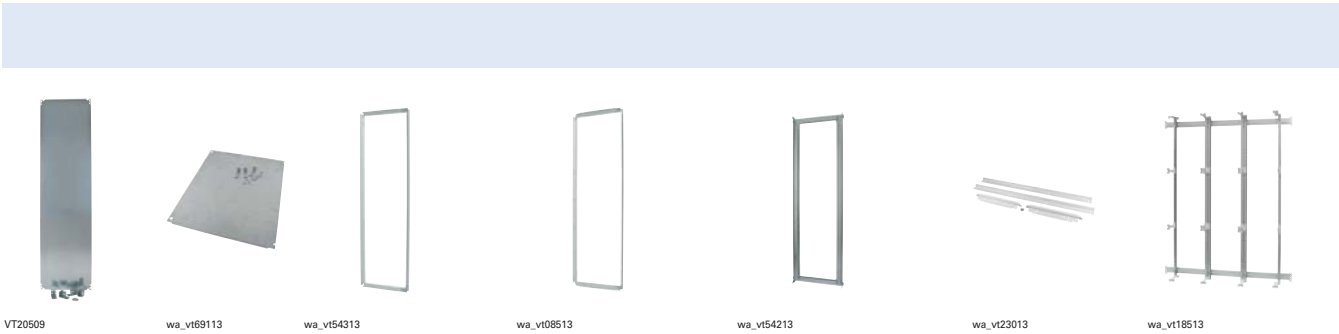
Note

* Finish in special RAL colour

¹⁾ Double-wing door

²⁾ For more individual components, please refer to the Profi+ catalogue

³⁾ For more individual components, please refer to the IVS catalogue



Mounting p. total height of section	Mounting plates available as of a height of 100 mm	Fitting frames for ²⁾ installation outgoers xBoard Profi+ in xEnergy Max. installation depth in the door to the switchgear area is 135 mm H = 2000 mm	Fitting frames for ²⁾ installation outgoers xBoard Profi+ in xEnergy Max. installation depth in the door to the switchgear area is 185 mm H = 2000 mm	Mounting frames for ²⁾ installation outgoers for use with fixed installation, without MSW (swing out impossible) supporting bracket for front panels required H = 2000 mm	Cover frame for for ³⁾ IVS in xEnergy H = 2000 mm	Fitting frame for ³⁾ IVS in xEnergy H = 2000 mm
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMF2004 284263	see page xx	XVTL-BP-W-4/20 115203	XVTL-BP-W-4/20-185 120624	XVTLBP-F-4/20 115173	XVTL-IVS-4/20 115230	XVTL-TG-400/20/4-IVS 116057
XSMF2006 284264	see page xx	XVTL-BP-W-6/20 115210	XVTL-BP-W-6/20-185 120628	XVTLBP-F-6/20 115180	XVTL-IVS-6/20 115232	XVTL-TG-600/20/4-IVS 116059
XSMF2008 284265	see page xx	XVTL-BP-W-8/20 115216	XVTL-BP-W-8/20-185 120631	XVTLBP-F-8/20 115186	XVTL-IVS-8/20 115234	XVTL-TG-800/20/4-IVS 116071
XSMF2010 284266	see page xx	XVTL-BP-W-10/20 115222	XVTL-BP-W-10/20-185 120634	XVTLBP-F-10/20 115192	-	-
XSMF2004 284263	see page xx	XVTL-BP-W-4/20 115203	XVTL-BP-W-4/20-185 120624	XVTLBP-F-4/20 115173	XVTL-IVS-4/20 115230	XVTL-TG-400/20/4-IVS 116057
XSMF2006 284264	see page xx	XVTL-BP-W-6/20 115210	XVTL-BP-W-6/20-185 120628	XVTLBP-F-6/20 115180	XVTL-IVS-6/20 115232	XVTL-TG-600/20/4-IVS 116059
XSMF2008 284265	see page xx	XVTL-BP-W-8/20 115216	XVTL-BP-W-8/20-185 120631	XVTLBP-F-8/20 115186	XVTL-IVS-8/20 115234	XVTL-TG-800/20/4-IVS 116071
XSMF2010 284266	see page xx	XVTL-BP-W-10/20 115222	XVTL-BP-W-10/20-185 120634	XVTLBP-F-10/20 115192	-	-
XSMF2012 284267	see page xx	XVTL-BP-W-12/20 115228	XVTL-BP-W-12/20-185 120637	XVTLBP-F-12/20 115198	XVTL-IVS-12/20 115236	XVTL-TG-1200/20/4-IVS 116073

Note

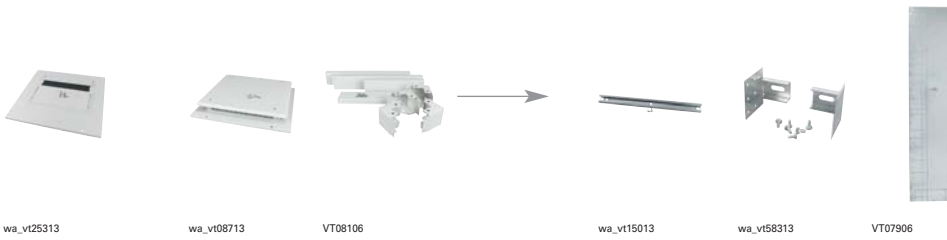
- * Finish in special RAL colour
- 1) Double-wing door
- 2) For more individual components, please refer to the Profi+ catalogue
- 3) For more individual components, please refer to the IVS catalogue



Door to switchgear area closed up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31	Door to switchgear area closed transparent up to IP55	Rear panel ventilated up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Top panel Bottom panel closed up to IP55	Top panel Bottom panel for flanges up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC2004 284198 122244 *	XSDMRV2004 284218 122264 *	XSDMLV2004 284209 122255 *	XSDMD2004 284203 122249 *	XSWC2004 284355 122346 *	XSWV2004 284360 122351 *	XAW2004 283856 122118 *	XSPTC0404 284301 122316 *	XSPTF0404 284316 122331 *
XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *	XSDMD2006 284204 122250 *	XSWC2006 284356 122347 *	XSWV2006 284361 122352 *	XAW2004 283856 122118 *	XSPTC0604 284304 122319 *	XSPTF0604 284319 122334 *
XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2004 283856 122118 *	XSPTC0804 284307 122322 *	XSPTF0804 284322 122337 *
XSDMC2010 284201 122247 *	XSDMRV2010 284221 122267 *	XSDMLV2010 284212 122258 *	XSDMD2010-S 143334 143470	XSWC2010 284358 122349 *	XSWV2010 284363 122354 *	XAW2004 283856 122118 *	XSPTC1004 284310 122325 *	XSPTF1004 284325 122340 *
XSDMC2004 284198 122244 *	XSDMRV2004 284218 122264 *	XSDMLV2004 284209 122255 *	XSDMD2004 284203 122249 *	XSWC2004 284355 122346 *	XSWV2004 284360 122351 *	XAW2006 283857 122119 *	XSPTC0406 284302 122317 *	XSPTF0406 284317 122332 *
XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *	XSDMD2006 284204 122250 *	XSWC2006 284356 122347 *	XSWV2006 284361 122352 *	XAW2006 283857 122119 *	XSPTC0606 284305 122320 *	XSPTF0606 284320 122335 *
XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2006 283857 122119 *	XSPTC0806 284308 122323 *	XSPTF0806 284323 122338 *
XSDMC2010 284201 122247 *	XSDMRV2010-S 284221 122267 *	XSDMLV2010-S 284212 122258 *	XSDMD2010-S 143334 143470	XSWC2010 284358 122349 *	XSWV2010 284363 122354 *	XAW2006 283857 122119 *	XSPTC1006 284311 122326 *	XSPTF1006 284326 122341 *
XSDMC2012-S¹⁾ 284202 122248 *	XSDMRV2012¹⁾ 184222 122268 *	XSDMLV2012-S¹⁾ 284213 122259 *	XSDMD2012-S 143336 143472 *	XSWC2012 284359 122350 *	XSWV2012 284364 122355 *	XAW2006 283857 122119 *	XSPTC1206 284314 122329 *	XSPTF1206 284329 122344 *

Note

- * Finish in special RAL colour
- 1) Double-wing door
- 2) For further individual components, please refer to the Profi+ catalogue
- 3) For further individual components, please refer to the IVS catalogue



wa_vt25313 wa_vt08713 VT08106 wa_vt15013 wa_vt58313 VT07906

Top panel Bottom panel in several parts up to IP31 ⁴⁾	Top panel ventilated up to IP31	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	Separation panel	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPBM0404 284286 122301 *	XAD0404 283484 122076 *	XAP010404 283822 122090 *	XAP020404 283836 122104 *	XAR04 283850	XNBW-R2 106740	XPSS2004 284781	
XSPBM0604 284289 122304 *	XAD0604 283487 122079 *	XAP010604 283825 122093 *	XAP020604 283839 122107 *	XAR06 283851	XNBW-R2 106740	XPSS2004 284781	
XSPBM0804 284292 122307 *	XAD0804 283810 122082 *	XAP010804 283828 122096 *	XAP020804 283842 122110 *	XAR08 283852	XNBW-R2 106740	XPSS2004 284781	
XSPBM1004 284295 122310 *	XAD1004 283813 122085 *	XAP011004 283831 122099 *	XAP021004 283845 122113 *	XAR10 283853	XNBW-R2 106740	XPSS2004 284781	
XSPBM0406 284287 122302 *	XAD0406 283485 122077 *	XAP010406 283823 122091 *	XAP020406 283837 122105 *	XAR04 283850	XNBW-R2 106740	XPSS2006 284178	
XSPBM0606 284290 122305 *	XAD0606 283488 122080 *	XAP010606 283826 122094 *	XAP020606 283840 122108 *	XAR06 283851	XNBW-R2 106740	XPSS2006 284178	
XSPBM0806 284293 122308 *	XAD0806 283811 122083 *	XAP010806 283829 122097 *	XAP020806 283843 122111 *	XAR08 283852	XNBW-R2 106740	XPSS2006 284178	
XSPBM1006 104529 122421 *	XAD1006 283814 122086 *	XAP011006 283832 122100 *	XAP021006 283846 122114 *	XAR10 283853	XNBW-R2 106740	XPSS2006 284178	
XSPBM1206 104531 122423 *	XAD1206 283816 122088 *	XAP011206 283834 122102 *	XAP021206 283848 122116 *	XAR12 283854	XNBW-R2 106740	XPSS2006 284178	

Note

* Finish in special RAL colour

1) Double-wing door

2) For more individual components, please refer to the Profi+ catalogue

3) For more individual components, please refer to the IVS catalogue

4) With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

General Mounting Units, Main Busbars rear-mounted (HSS)

(continued)



VT19310, wa_vt28213



VT13310



VT10109



wa_vt68713



wa_vt33413



VT27209



wa_vt71913



VT00109

Section depth mm	Section width mm	Frames Article No. per unit	Vertical profiles Article No. per unit	Crossbar for busbar support Article No. per unit	Support for main busbar Article No. per unit	Busbar support for PEN Article No. per unit	Separation p. main busbar area/switch-gear area Article No. per unit	Fitting kit ¹⁾ multi-functional support plates for HSH Article No. per unit
800	425	XSFB0408 284233	XSFH20 284245	XBBB04 283859	see page xx	XBSP 283872	XPFCB04/06 110265	XSMIB20 284257
		122276 *	122288 *					
	600	XSFB0608 284236	XSFH20 284245	XBBB06 283860	see page xx	XBSP 283872	XPFCB04/06 110265	XSMIB20 284257
		122279 *	122288 *					
	800	XSFB0808 284239	XSFH20 284245	XBBB08 283861	see page xx	XBSP 283872	XPFCB08/10 110266	XSMIB20 284257
122282 *	122288 *							
1000	XSFB1008 284242	XSFH20 284245	XBBB10 283862	see page xx	XBSP 283872	XPFCB08/10 110266	XSMIB20 284257	
122285 *	122288 *							
1200	XSFB1208 284244	XSFH20 284245	XBBB12 283863	see page xx	XBSP 283872	XPFCB12 110267	XSMIB20 284257	
122287 *	122288 *							

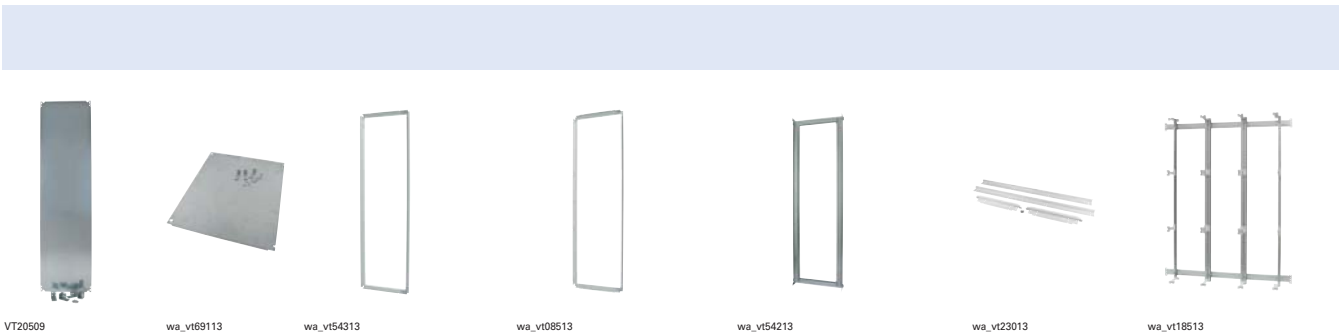
Note

* Finish in special RAL colour

¹⁾ Double-wing door

²⁾ For further individual components, please refer to the Profi+ catalogue

³⁾ For further individual components, please refer to the IVS catalogue



Mounting p. total height of section incl. fixing brackets	Mounting plates available as of a height of 100 mm	Fitting frames for ²⁾ installation outgoers xBoard Profi+ in xEnergy Max. installation depth in the door to the switchgear area is 135 mm H = 2000 mm	Fitting frames for ²⁾ installation outgoers xBoard Profi+ in xEnergy Max. installation depth in the door to the switchgear area is 185 mm H = 2000 mm	Mounting frames for ²⁾ installation outgoers for use with fixed installation, without MSW (swing out impossible) supporting bracket for front panels required H = 2000 mm	Cover frame for for ³⁾ IVS in xEnergy H = 2000 mm	Fitting frame for ³⁾ IVS in xEnergy H = 2000 mm
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSMF2004 284263	see page xx	XVTL-BP-W-4/20 115203	XVTL-BP-W-4/20-185 120624	XVTLBP-F-4/20 115173	XVTL-IVS-4/20 115230	XVTL-TG-400/20/4-IVS 116057
XSMF2006 284264	see page xx	XVTL-BP-W-6/20 115210	XVTL-BP-W-6/20-185 120628	XVTLBP-F-6/20 115180	XVTL-IVS-6/20 115232	XVTL-TG-600/20/4-IVS 116059
XSMF2008 284265	see page xx	XVTL-BP-W-8/20 115216	XVTL-BP-W-8/20-185 120631	XVTLBP-F-8/20 115186	XVTL-IVS-8/20 115234	XVTL-TG-800/20/4-IVS 116071
XSMF2010 284266	see page xx	XVTL-BP-W-10/20 115222	XVTL-BP-W-10/20-185 120634	XVTLBP-F-10/20 115192	-	-
XSMF2012 284267	see page xx	XVTL-BP-W-12/20 115228	XVTL-BP-W-12/20-185 120637	XVTLBP-F-12/20 115198	XVTL-IVS-12/20 115236	XVTL-TG-1200/20/4-IVS 116073

Note

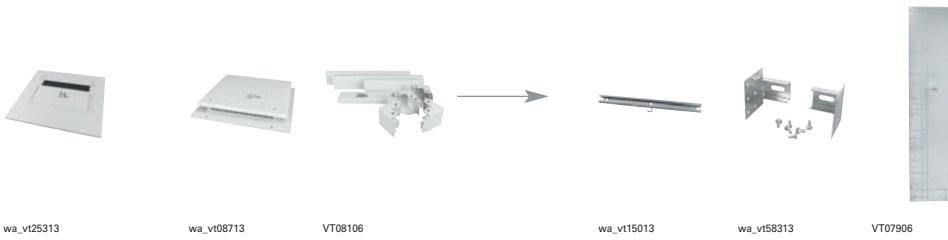
- * Finish in special RAL colour
- 1) Double-wing door
- 2) For further individual components, please refer to the Profi+ catalogue
- 3) For further individual components, please refer to the IVS catalogue



Door to switchgear area closed up to IP55	Door to switchgear area ventilated right up to IP31	Door to switchgear area ventilated left up to IP31	Door to switchgear area transparent up to IP55	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Top panel closed up to IP55	Bottom panel closed up to IP55	Top panel for flanges up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC2004 284198 122244 *	XSDMRV2004 284218 122264 *	XSDMLV2004 284209 122255 *	XSDMD2004 284203 122249 *	XSWC2004 284355 122346 *	XSWV2004 284360 122351 *	XAW2008 283858 122120 *	XSPTC0408 284303 122318 *		XSPTF0408 284318 122333 *
XSDMC2006 284199 122245 *	XSDMRV2006 284219 122265 *	XSDMLV2006 284210 122256 *	XSDMD2006 284204 122250 *	XSWC2006 284356 122347 *	XSWV2006 284361 122352 *	XAW2008 283858 122120 *	XSPTC0608 284306 122321 *		XSPTF0608 284321 122336 *
XSDMC2008 284200 122246 *	XSDMRV2008 284220 122266 *	XSDMLV2008 284211 122257 *	XSDMD2008 284701 122358 *	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XAW2008 283858 122120 *	XSPTC0808 284309 122324 *		XSPTF0808 284324 122339 *
XSDMC2010 284201 122247 *	XSDMRV2010-S 284221 122267 *	XSDMLV2010 284212 122258 *	XSDMD2010-S 143334 143470 *	XSWC2010 284358 122349 *	XSWV2010 284363 122354 *	XAW2008 283858 122120 *	XSPTC1008 284312 122327 *		XSPTF1008 284327 122342 *
XSDMC2012¹⁾ 284202 122248 *	XSDMRV2012¹⁾ 284222 122268 *	XSDMLV2012¹⁾ 284213 122259 *	XSDMD2012-S 143336 143472 *	XSWC2012 284359 122350 *	XSWV2012 284364 122355 *	XAW2008 283858 122120 *	XSPTC1208 284315 122330 *		XSPTF12080 284330 122345 *

Note

- * Finish in special RAL colour
- 1) Double-wing door
- 2) For further individual components, please refer to the Profi+ catalogue
- 3) For further individual components, please refer to the IVS catalogue



Top panel bottom panel in several parts up to IP31 ⁴⁾	Top panel ventilated up to IP31	Plinth 100 mm	Plinth 200 mm	Cable strain relief rail	Fixing bracket for cable strain relief rail	Separation panel	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPBM0408 284288 122303 *	XAD0408 283486 122078 *	XAP010408 283824 122092 *	XAP020408 283838 122106 *	XAR04 283850	XNBW-R2 106740	XPSS2004 284781	
XSPBM0608 284291 122306 *	XAD0608 283489 122081 *	XAP010608 283827 122095 *	XAP020608 283841 122109 *	XAR06 283851	XNBW-R2 106740	XPSS2004 284781	
XSPBM0808 284294 122309 *	XAD0808 283812 122084 *	XAP010808 283830 122098 *	XAP020808 283844 122112 *	XAR08 283852	XNBW-R2 106740	XPSS2004 284781	
XSPBM1008 104530 122422 *	XAD1008 283815 122087 *	XAP011008 283833 122101 *	XAP021008 283847 122115 *	XAR10 283853	XNBW-R2 106740	XPSS2004 284781	
XSPBM1208 104532 122424 *	XAD1208 283817 122089 *	XAP011208 283835 122103 *	XAP021208 283849 122117 *	XAR12 283854	XNBW-R2 106740	XPSS2006 284178	

Note

* Finish in special RAL colour

¹⁾ Double-wing door

²⁾ For further individual components, please refer to the Profi+ catalogue

³⁾ For further individual components, please refer to the IVS catalogue

⁴⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

Components



xEnergy Switchboards

General Accessories: Frames

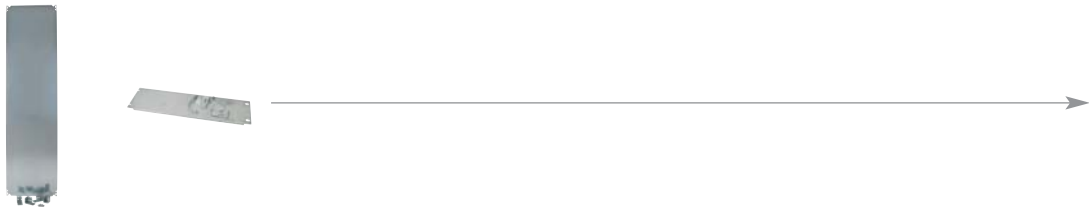
For all other individual components, please refer to the Profi+ or IVS catalogue (front panels, switchgear bars, ...)



Section width mm	wa_vt08513		wa_vt54213		wa_vt23013		wa_vt18513		
	Fitting frame for installation outgoers xBoard Profi+ max. fitting depth in door to switchgear a. 135 mm H = 2000 mm Article No. per unit unit = 1 set	Fitting frame for installation outgoers xBoard Profi+ max. fitting depth in door to switchgear a. 185 mm H = 2000 mm Article No. per unit unit = 1 set	Mounting frame for installation outgoers xBoard Profi+ to be used for fixed install., without MSW (cannot be turned out), in addition you will need support brackets for the front panels H = 2000 mm Article No. per unit unit = 1 set	Cover frame for IVS in xEnergy H = 2000 mm Article No. per unit unit = 1 set	Fitting frame for ¹⁾ IVS in xEnergy H = 2000 mm Article No. per unit unit = 1 set				
425	XVTL-BP-W-4/20 115203	XVTL-BP-W-4/20-185 120624	XVTL-BP-F-4/20 115173	XVTL-IVS-4/20 115230	XVTL-TG-400/20/4-IVS 116057				
600	XVTL-BP-W-6/20 115210	XVTL-BP-W-6/20-185 120628	XVTL-BP-F-6/20 115180	XVTL-IVS-6/20 115232	XVTL-TG-600/20/4-IVS 116059				
800	XVTL-BP-W-8/20 115216	XVTL-BP-W-8/20-185 120631	XVTL-BP-F-8/20 115186	XVTL-IVS-8/20 115234	XVTL-TG-800/20/4-IVS 116071				
1000	XVTL-BP-W-10/20 115222	XVTL-BP-W-10/20-185 120634	XVTL-BP-F-10/20 115192	-	-				
1200	XVTL-BP-W-12/20 115228	XVTL-BP-W-12/20-185 120637	XVTL-BP-F-12/20 115198	XVTL-IVS-12/20 115236	XVTL-TG-1200/20/4-IVS 116073				

General Accessories: Mounting Plates as high as the Section, Mounting Plates without holes in divers heights

Incl. fastening material.



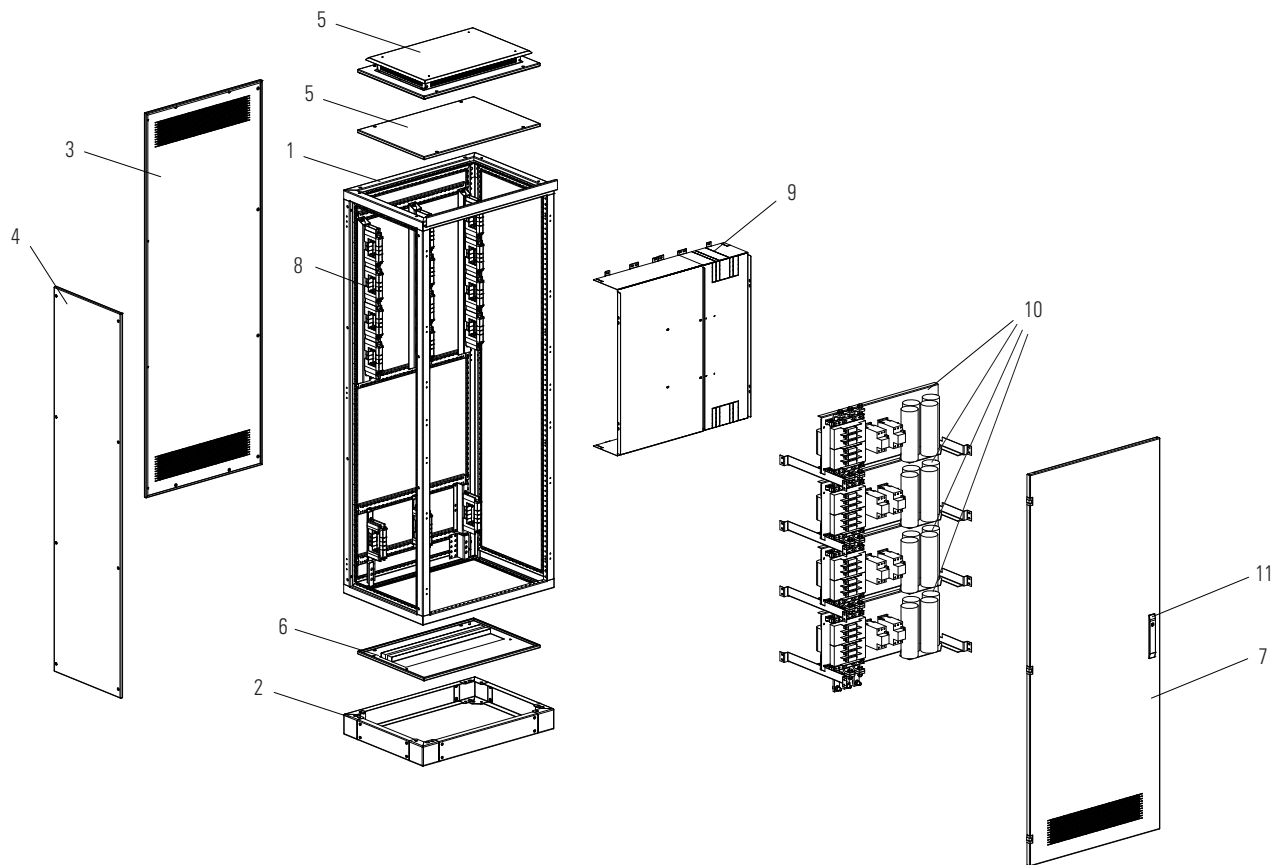
Section width mm	VT20509		wa_vt33513							
	Mounting plate as high as the section Article No. per unit unit = 1 set	H = 50 mm Article No. per unit unit = 1 set	H = 100 mm Article No. per unit unit = 1 set	H = 150 mm Article No. per unit unit = 1 set	H = 200 mm Article No. per unit unit = 1 set	H = 300 mm Article No. per unit unit = 1 set	H = 400 mm Article No. per unit unit = 1 set	H = 600 mm Article No. per unit unit = 1 set	H = 800 mm Article No. per unit unit = 1 set	
425	XSMFMB2004 284263	XME0204M 283923	XME0404M 283929	XME0604M 284727	XME0804M 283941	XME1204M 285684	XME1604M 283949	XME2404M 285685	-	
600	XSMFMB2006 284264	XME0206M 283925	XME0406M 283933	XME0606M 284728	XME0806M 283945	XME1206M 285686	XME1606M 283951	XME2406M 285687	XME3206M 126010	
800	XSMFMB2008 284265	-	XME0408M 285689	XME0608M 285690	XME0808M 285691	XME1208M 285692	XME1608M 285693	XME2408M 285694	-	
1000	XSMFMB2010 284266	-	XME0410M 285695	XME0610M 285696	XME0810M 285697	XME1210M 285698	XME1610M 285699	XME2410M 285700	-	
1200	XSMFMB2012 284267	-	-	-	-	-	-	XME2412M 102810	-	

Note

¹⁾ For further individual components, please refer to the IVS catalogue

Power Factor Correction

Katalog 5-1-kompens



- 1 Frame
- 2 Plinth
- 3 Rear panel
- 4 Side panel
- 5 Top panel
- 6 Bottom panel
- 7 Door to switchgear area
- 8 Support for main busbar
- 9 Partition main busbar area/switchgear area
- 10 Correction module
- 11 Lock mechanism

Features

- Section widths of 600/800 mm
- Module widths of 600/800 mm
- Can be installed up to zu 500 kVAr
- Suitable with or without main busbar
- Suitable for main busbar top-mounted and rear-mounted
- Suitable for section depths of 600/800 mm
- IP31/55

Notes

Frame comes with a blue design strip.
Doors include locking system for 3 mm two-way key bit.
Fitting kits pre-drilled, incl. of all fixing elements.
Where cover plates in several parts are used, it may be necessary to provide for the required degree of protection through additional measures.
For flanges, clip-down handles, lifting eyebolts, 180° hinges, fixing brackets, Durostone supports, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

xEnergy Switchboards

Correction components from Frako

Supplier of correction modules, regulators and fans is the company **FRAKO**. The set-up of the xEnergy sections will be based on the offer and the set-up instructions of the company **FRAKO**.

Address:
FRAKO GmbH, Tscheulinstr. 21 A, D-79331 Teningen, Germany
Phone: +49 (0)7641-453-0, Fax: +49 (0)7641-453-535

Power factor in kvar					Section		
degree of protection IP31 with protective top		with closed cover plate and top-mounted fan		Degree of protection IP54/55 ²⁾ with door fan		Version	Dimensions
Unchoked	Choked ¹⁾	Unchoked	Choked ¹⁾	Unchoked			Height x Width x Depth
kvar	5.67 %; 7 %; 8 %	kvar	5.67 %; 7 %; 8 %	kvar			mm
400	400	–	400	200 – 400	without main busbar	2000 x 600 x 600 / 800 2000 x 800 x 600 / 800	
400	500	500	400	200 – 400	with rear-mounted main busb.	2000 x 800 ²⁾ x 600 / 800	
400	400	–	300	200 – 300	with top-mounted main busb.	2000 x 600 x 600 2000 x 800 x 600	

Notes:

¹⁾ Choked to 13.5 % available upon request.

²⁾ If a busbar separation on the right side is necessary for transport purposes, a **75 mm** wide add-on frame XSAF2001... **must be used** in order to ensure access.

Planning notes for the installation of power factor correction components:

- Installation of 500 kvar is only possible in case of direct connection to the main busbar.
- In case a cable connection is used for the correction section, a max. of 400 kvar can be installed.
- If you install a disconnector or a back-up fuse, the correction factor that can be installed is limited to 300 kvar (this applies to sections with and without a main busbar).

Model FRAKO	Series resonance frequency	Choking factor for	Networks using an energy supplier's sound frequency ³⁾
-P8	177 Hz	p = 8 %	≥ 217 Hz
-P7	189 Hz	p = 7 %	≥ 228 Hz
-P5	210 Hz	p = 5.67 %	≥ 270 Hz

Notes:

³⁾ Any different regulations applying to energy suppliers must be taken into account.

Fitting kits

Type

Article No.
for one unit each

Profile for the installation of a power factor correction system

- only required for sections with rear-mounted busbars
- 2 units required for each section

XSMPB20
288997

VT25009

Separation panel main busbar area at the rear/switchgear area

- Partition main busbar

XPFCB08/10
110266



wa_vt56913

- only for sections with rear-mounted busbar
- for internal separation Form 2

XPBM2008
288998

Planning notes for finishing the sections:

- Vertical profiles XSFH20 and frame XSFB08..., e.g. to be selected from sections for general mounting units
- For an IP31 degree of protection you will need:
 - Door ventilated XSDML(R)V20...
 - Rear panel ventilated XSWV20...
 - Cover plate closed XSPTC... with top-mounted fan
 - Protective top XAD... with 400 kvar unchoked without fan
 - Bottom panel closed XSPBM...
 - Separation section/section XPSS..., in case of correction sections with a fan this is necessary on both sides towards the adjacent panels (not applicable if a side panel or separation p. section/section already exists in the adjacent section).
 - Side panel XAW.. if required.
- For an IP55 degree of protection you will need:
 - Door closed XSDMC20...
 - Rear panel closed XSWC20...
 - Cover plate closed XSPTC...
 - Bottom panel closed XSPBM...
 - Separation section/section XPSS..., necessary on both sides towards adjacent sections (not applicable if a side panel or separation p. section/section already exists in the adjacent section).
 - Side panel XAW.. if required.

xEnergy Switchboards

Ordering aid for power factor correction components from FRAKO

Supplier of correction modules, control units and fans is the company FRAKO. The equipment of the xEnergy sections will be based on the offer and the set-up instructions of the company FRAKO.

Address: FRAKO GmbH, Tscheulinstr. 21 A, D-79331 Teningen, Germany. Phone +49 (0) 7641-453-0, Fax. +49 (0) 7641-453-535

Total power kvar	Power range kvar	Switching sequence	Type Article No.	Weight approx. (kg)
Modules unchoked for a section width of 600 mm and a section depth of 600/800 mm for all versions				
Dimensions (W x H x D) 500 x 300 x 350 mm				
50	12.5	1:1:2	C64C-50-12.5-21-400/440-64	
50	25	1:1	C64C-50-25-2-400/440-64	
50	50	1	C64C-50-50-1-400/440-64	
100	12.5	1:1:2:4	C64C-100-12.5-211-400/440-64	
100	25	1:1:2	C64C-100-25-21-400/440-64	
100	50	1:1	C64C-100-50-2-400/440-64	
Additional equipment: Set of support rails, complete for C-modules in xEnergy 600 mm deep				
For rear-mounted busbars			34-80173	
Without busbars or for top-mounted busbars			34-80174	
Modules choked for a section width of 600 mm and a section depth of 600/800 mm without busbars				
Dimensions (W x H x D) 500 x 300 x 350 mm for C64D..., 500 x 300 x 550 mm for C66D...				
50	12.5	1:1:2	C64C-50-12.5-21-400/440-64-P... ¹⁾	
50	25	1:1	C64C-50-25-2-400/440-64-P... ¹⁾	
50	50	1	C64C-50-50-1-400/440-64-P... ¹⁾	
100	25	1:1:2	C64C-100-25-21-400/440-66-P... ¹⁾	
100	50	1:1	C64C-100-50-2-400/440-66-P... ¹⁾	
Additional equipment: Set of support rails, complete for C-modules in xEnergy 600 mm deep				
Without busbars or for top-mounted busbars			34-80174	
Modules unchoked for a section width of 800 mm and a section depth of 600/800 mm for all versions				
Dimensions (W x H x D) 700 x 300 x 350 mm				
50	12.5	1:1:2	C84C-50-12.5-21-400/440-84	
50	25	1:1	C84C-50-25-2-400/440-84	
50	50	1	C84C-50-50-1-400/440-84	
100	12.5	1:1:2:4	C84C-100-12.5-211-400/440-84	
100	25	1:1:2	C84C-100-25-21-400/440-84	
100	50	1:1	C84C-100-50-2-400/440-84	
Additional equipment: Set of support rails, complete for C-modules in xEnergy 600 mm deep				
For rear-mounted busbars			34-80173	
Without busbars or for top-mounted busbars			34-80174	

Notes

Status: 18 Nov. 2004

¹⁾ Choking of 5.67% = P5; 7 % = P7; 8 % = P8

xEnergy Switchboards

Ordering aid for power factor correction components from FRAKO

Total power kvar	Power range kvar	Switching sequence	Type Article No.	Weight approx. (kg)
Modules choked for a section width of 800 mm and a section depth of 600/800 mm without busbars				
Dimensions (W x H x D) 700 x 300 x 350 mm				
50	12.5	1:1:2	C84C-50-12.5-21-400/440-84-P... ¹⁾	
50	25	1:1	C84C-50-25-2-400/440-84-P... ¹⁾	
50	50	1	C84C-50-50-1-400/440-84-P... ¹⁾	
100	25	1:1:2	C84C-100-25-21-400/440-84-P... ¹⁾	
100	50	1:1	C84C-100-50-2-400/440-84-P... ¹⁾	
Additional equipment: Set of support rails, complete for C-modules in xEnergy 600 mm deep				
For rear-mounted busbars			34-80173	
Without busbars or for top-mounted busbars			34-80174	
Notes	¹⁾ Throttling of 5.67% = P5; 7 % = P7; 8 % = P8 Other versions on request		Type Article No.	
Regulators, control units, fans				
Regulator package, 6 speeds With regulator terminal strip on DIN-rail			STR-RM 9606-1500 34-72016	
Regulator package, 12 speeds With regulator terminal strip on DIN-rail			STR-RM 11005-1500 34-72024	
Connection from below			CU-AW 1 34-80006	
Fan package, complete, IP31 Top-mounted fan with thermostat			LP-LSFC 34-80096	
Fan package, complete, IP54 Top-mounted fan with thermostat			LP-LSFC IP54-3426/1 34-80169	
Control mounting plate To accommodate regulator terminal strip, thermostat, control transformer, core balance transformer etc.				
For a section width of 600 mm			34-80069	SB-C6
For a section width of 800 mm			34-80053	SB-C8

Power correction components from FRAKO



VT19410



VT13310



VT10109



wa_vt133413



VT27209



wa_vt71913



VT25009

Section width mm	Frames depth 600 mm	Vertical profiles	Main busbar support	Busbar support for PE/PEN	Separation p. Main busbar area/switch-gear area	Separation p. Main busbar area/switch-gear area	Support profile as high as the section	Set of support rails for power correction modules to be ordered directly from FRAKO
			Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
Depth of 600 mm, rear-mounted busbar								
600	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	see page xx	XBSP 283872	-	XPFCB04/06 110265	XSMPB20 288997	34-80173
800	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	see page xx	XBSP 283872	XPBM2008 288998	XPFCB08/10 110266	XSMPB20 288997	34-80173
Depth of 800 mm, rear-mounted busbar								
600	XSFB0608 284236 122279 *	XSFH20 284245 122288 *	see page xx	XBSP 283872	-	XPFCB04/06 110265	XSMPB20 288997	34-80174
800	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	see page xx	XBSP 283872	XPBM2008 288998	XPFCB08/10 110266	XSMPB20 288997	34-80174
Depth of 600 mm, top-mounted busbar (or no busbar at all)								
600	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	see page xx	XBSP 283872	-	XPFCB04/06 110265	-	34-80174
800	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	see page xx	XBSP 283872	XPBM2008 288998	XPFCB08/10 110266	-	34-80174

Note

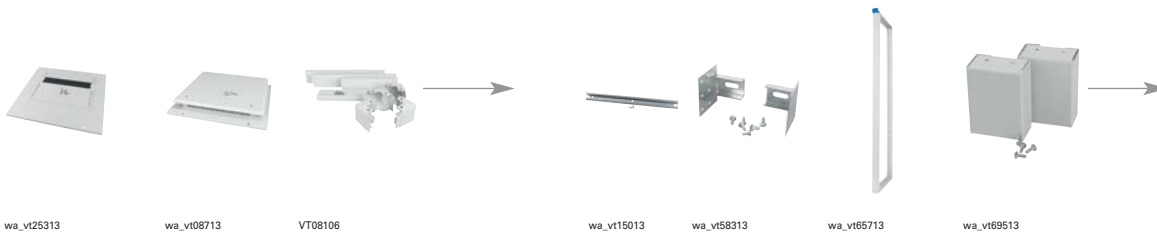
* Finish in special RAL colour



Door to switch gear area closed up to IP55	Door to switch gear area ventilated right up to IP31	Door to switchgear area, ventil. left up to IP31	Door to switch gear area with glass up to IP55	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Top panel closed up to IP55	Top panel for flanges up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC2006 284199	XSDMRV2006 284219	XSDMLV2006 284210	XSDMD2006 284204	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320
122245 *	122265 *	122256 *	122250 *	122347 *	122352 *	122119 *	122320 *	122335 *
XSDMC2008 284200	XSDMRV2008 284220	XSDMLV2008 284211	XSDMD2008 284701	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323
122246 *	122266 *	122257 *	122358 *	122348 *	122353 *	122119 *	122323 *	122338 *
XSDMC2006 284199	XSDMRV2006 284219	XSDMLV2006 284210	XSDMD2006 284204	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321
122245 *	122265 *	122256 *	122250 *	122347 *	122352 *	122120 *	122321 *	122336 *
XSDMC2008 284200	XSDMRV2008 284220	XSDMLV2008 284211	XSDMD2008 284701	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324
122246 *	122266 *	122257 *	122358 *	122348 *	122353 *	122120 *	122324 *	122339 *
XSDMC2006 284199	XSDMRV2006 284219	XSDMLV2006 284210	XSDMD2006 284204	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320
122245 *	122265 *	122256 *	122250 *	122347 *	122352 *	122119 *	122320 *	122335 *
XSDMC2008 284200	XSDMRV2008 284220	XSDMLV2008 284211	XSDMD2008 284701	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323
122246 *	122266 *	122257 *	122358 *	122348 *	122353 *	122119 *	122323 *	122338 *

Note

* Finish in special RAL colour



Top panel in several p. up to IP31 ¹⁾	Top panel ventilated up to IP31	Plinth 100 mm high	Plinth 200 mm high	Anchor rail	Fixing brackets for anchor rails	Add-on frame	Plinth for add-on frame H = 100 mm	Plinth for add-on frame H = 200 mm	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	XSAF200106 289908	XAP0101AF 289950	XAP0201AF 289951	
122305 *	122080 *	122094 *	122108 *			122389 *	122391 *	122392 *	
XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	XSAF200106 289908	XAP0101AF 289950	XAP0201AF 289951	
122308 *	122083 *	122097 *	122111 *			122389 *	122391 *	122392 *	
XSPBM0608 284291	XAD0608 283489	XAP010608 283827	XAP020608 283841	XAR06 283851	XNBW-R2 106740	XSAF200108 289909	XAP0101AF 289950	XAP0201AF 289951	
122306 *	122081 *	122095 *	122109 *			122390 *	122391 *	122392 *	
XSPBM0808 284294	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR08 283852	XNBW-R2 106740	XSAF200108 289909	XAP0101AF 289950	XAP0201AF 289951	
122309 *	122084 *	122098 *	122112 *			122390 *	122391 *	122392 *	
XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	XSAF200106 289908	XAP0101AF 289950	XAP0201AF 289951	
122305 *	122080 *	122094 *	122108 *			122389 *	122391 *	122392 *	
XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	XSAF200106 289908	XAP0101AF 289950	XAP0201AF 289951	
122308 *	122083 *	122097 *	122111 *			122389 *	122391 *	122392 *	

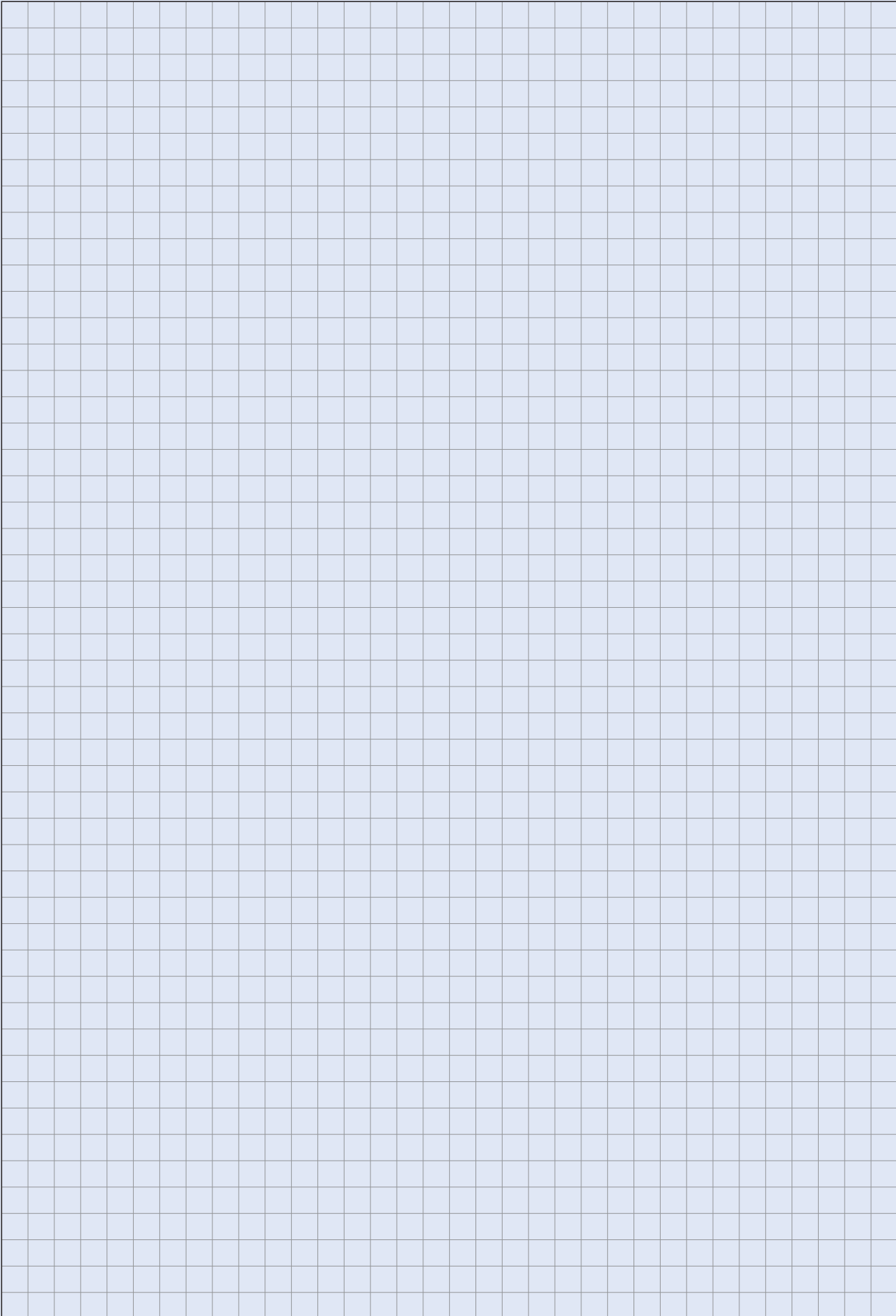
Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

xEnergy Switchboards

Notes



xEnergy Switchboards

Power factor correction components from KBR

Supplier of correction modules, regulators and fans is the company KBR. The set-up of the xEnergy sections will be based on the offer and the set-up instructions of the company KBR.

Address:
KBR GmbH; Am Kieferschlag 7, 91126 Schwabach, Germany
Phone +49 9122 6373-0, Fax +49 9122 6373-83, mail: info@kbr.de

Power factor in kvar				Section	
Degree of prot. IP31 with closed cover plate and top-mounted fan		Degree of protection IP54/55 ²⁾ with closed cover plate and top-mounted fan		Version	Dimensions
Choked	Choked	Choked	Choked		Height x Width x Depth
5.5%, 7%, 8% kvar	12.5%, 14% kvar	5.5%, 7%, 8% kvar	12.5%, 14% kvar	mm	
200	200	200	200	without main busbar	2000 x 600 x 600 / 800
400	400	400	400		2000 x 800 x 600 / 800
400	400	400	400	with rear-mounted main busb.	2000 x 800 ¹⁾ x 600 / 800
150	150	150	150	with top-mounted main busb.	2000 x 600 x 600
300	300	300	300		2000 x 800 x 600

Notes: ¹⁾ If a busbar separation on the right side is necessary for transport purposes, a **75 mm** wide add-on frame XSAF2001... **must be used** in order to ensure access.

²⁾ Top-mounted fan IP54, section IP55

Planning notes for the installation of power factor correction components:

- If you install a disconnector or a back-up fuse, there will be one space less available for other components.

Model KBR	Series resonance frequency	Choking factor for	Networks using an energy supplier's sound frequency ³⁾
-14	134 Hz	p = 14%	≥ 175 Hz
-12	142 Hz	p = 12,5%	≥ 185 Hz
-8	177 Hz	p = 8 %	≥ 217 Hz
-7	189 Hz	p = 7 %	≥ 228 Hz
-5	214 Hz	p = 5,5 %	> 270 Hz

Notes: ³⁾ Any different regulations applying to energy suppliers must be taken into account.

Planning notes for the set-up of sections:

- Vertical profiles of type XSFH20 and frames of type XSFB08... can be selected from sections for general mounting units; additional equipment according to your needs.
- For sections with top-mounted busbars you will need a set of XSFS06 cross-members.
- For sections with the busbar area at the rear you will need a separation panel for busbar area/switchgear area XPBM20... . You will not need it though if the correction sections are separate.
- Bottom panel type XSPBM... closed
- Separation panel section / section type XPSS..., required on both sides towards the adjacent sections if they are correction sections (does not apply if a side panel or separation panel section / section is already installed in the adjacent section).
- Side panel type XAW.. where necessary.

- For an IP31 degree of protection you will need:
 - Door ventilated XSDML(R)V20...
 - Rear panel ventilated XSWV20...
 - Cover plate closed XSPTC...
- For an IP55 degree of protection you will need:
 - Door closed XSDMC20...
 - Rear panel closed XSWC20...
 - Cover plate closed XSPTC...

xEnergy Switchboards

Ordering aid for power factor correction components from the company KBR

Supplier of correction modules, regulators and fans is the company KBR. The set-up of the xEnergy sections will be based on the offer and the set-up instructions of the company KBR.

Address: KBR GmbH; Am Kieferschlag 7, 91126 Schwabach, Phone +49 9122 6373-0, Fax +49 9122 6373-83, mail: info@kbr.de

Total power	Power range	Switching sequence	Required number of modules MK-H.....50/4...50/2..50/1		Type	Weight ²⁾ approx. (kg)
kvar	kvar				Complete system in the supplied section Article No.	

Modules unchoked for section width 600 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 4 modules), PLUG-IN TECHNOLOGY, Dimensions (W x H x D) 535 x 265 x 320 mm

Total power	Power range	Switching sequence	Required number of modules		Type	Weight ²⁾ approx. (kg)
100	12.5	1:1:2:4	1	1	GR-SH 100/8-MXE266	48
100	25	1:1:2	1	1	GR-SH 100/4-MXE266	46
150	25	1:1:2:2	1	2	GR-SH 150/6-MXE266	64
150	50	1:1:1		3	GR-SH 150/3-MXE266	64
200	25	1:1:2:2:2	1	3	GR-SH 200/8-MXE266	82
200	50	1:1:1:1		4	GR-SH 200/4-MXE266	82
250	50	1:1:1:1:1		5	GR-SH 250/5-MXE266	100

Accessories: Set of support rails, complete for C-modules in xEnergy.

For top-mounted busbars	EB20-XE2000SO	11
Without busbars or for rear-mounted busbars	EB20-XE2000SH	10

Total power	Power range	Switching sequence	Required number of modules ¹⁾ MVK-H.....25/1-p...50/1-p		Type	Weight ²⁾ approx. (kg)
kvar	kvar				Complete system in the supplied section Article No.	

Modules choked for section width 600 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 4 modules), PLUG-IN TECHNOLOGY, Dimensions (W x H x D) 535 x 265 x 290/330 mm

Total power	Power range	Switching sequence	Required number of modules		Type	Weight ²⁾ approx. (kg)
100	25	1:1:2	2	1	GVR-SH 100/4-p-MXE266	112
125	25	1:1:2	1	2	GVR-SH 125/5-p-MXE266	123
150	25	1:1:2:2	2	2	GVR-SH 150/6-p-MXE266	152
150	50	1:1:1		3	GVR-SH 150/3-p-MXE266	133
175	25	1:2:2:2	1	3	GVR-SH 175/7-p-MXE266	163
200	25	1:1:2:2:2	2	3	GVR-SH 200/8-p-MXE266	193
200	50	1:1:1:1		4	GVR-SH 200/4-p-MXE266	174
250	50	1:1:1:1:1		5	GVR-SH 250/5-p-MXE266	215

Accessories: Set of support rails, complete for C-modules in xEnergy.

For top-mounted busbars	EB20-XE2000SO	11
Without busbars or for rear-mounted busbars	EB20-XE2000SH	10

¹⁾ Specify choking factor for p: p = 5,5%; p = 7%; p = 8%

Total power	Power range	Switching sequence	Required number of modules MG-H...			Type	Weight ²⁾ approx. (kg)		
			...100/4	...100/2	...50/4	...50/2	...50/1	complete system in the supplied section	
kvar	kvar							Article No.	

Modules unchoked for section width 800 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 4 modules), PLUG-IN TECHNOLOGY, Dimensions (B x H x T) 735 x 265 x 320 mm

Total power	Power range	Switching sequence	Required number of modules		Type	Weight ²⁾ approx. (kg)
100	12,5	1:1:2:4	1	1	GR-SH 100/8-MXE286	50
100	25	1:1:2	1		GR-SH 100/4-MXE286	38
150	25	1:1:2:2	1	1	GR-SH 150/6-MXE286	56
150	50	1:1:1	1	1	GR-SH 150/3-MXE286	65
200	25	1:1:2:2:2	1	1	GR-SH 200/8-MXE286	66
200	50	1:1:1:1		2	GR-SH 200/4-MXE286	74
250	50	1:1:1:1:1		2	GR-SH 250/5-MXE286	94
300	50	1:1:1:1:1:1 ¹⁾		3	GR-SH 300/6-MXE286	102
400	50	1:1:1:1:1:1:1:1 ¹⁾		4	GR-SH 400/8-MXE286	130
500	50	1:1:1:1:1:1:1:1:1 ¹⁾		5	GR-SH 500/10-MXE286	158

Accessories: Set of support rails, complete for C-modules in xEnergy.

For top-mounted busbars	EB20-XE2000SO	11
Without busbars or for rear-mounted busbars	EB20-XE2000SH	10

¹⁾ 12 regulator speeds recommended.

xEnergy Switchboards

Ordering aid for power factor correction components from the company KBR.

Supplier of correction modules, regulators and fans is the company KBR. The set-up of the xEnergy sections will be based on the offer and the set-up instructions of the company KBR.

Address: KBR GmbH; Am Kieferschlag 7, 91126 Schwabach, Phone +49 9122 6373-0, Fax +49 9122 6373-83, mail: info@kbr.de

Total power	Power range	Switching sequence	Required number of modules ²⁾ MVG-H...				Type	Weight ²⁾
			...50/2-p	...50/1-p	...75/3-p	...75/1-p	Complete system in supplied section	pprox. (kg)
kvar	kvar						Article No.	

Modules choked for section width 800 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 4 modules), PLUG-IN TECHNOLOGY, Dimensions (W x H x D) 735 x 265 x 290/330 mm

Total power	Power range	Switching sequence	Required number of modules ²⁾ MVG-H...				Type	Weight ²⁾
			...50/2-p	...50/1-p	...75/3-p	...75/1-p	Complete system in supplied section	pprox. (kg)
kvar	kvar						Article No.	
100	25	1:1:2	1	1			GVR-SH 100/4-p-MXE286	104
125	25	1:2:2		1	1		GVR-SH 125/5-p-MXE286	118
150	25	1:1:2:2			2		GVR-SH 150/6-p-MXE286	135
150	50	1:1:1		3			GVR-SH 150/3-p-MXE286	139
175	25	1:2:2:2		2	1		GVR-SH 175/7-p-MXE286	161
200	25	1:1:2:2:2		1	2		GVR-SH 200/8-p-MXE286	179
200	50	1:1,5:1,5		1		2	GVR-SH 200/4-p-MXE286	167
250	50	1:1:1,5:1,5		2		2	GVR-SH 250/5-p-MXE286	210
300	50	1:1:1:1,5:1,5		3		2	GVR-SH 300/6-p-MXE286	252
350	50	1:1,5:1,5:1,5:1,5		1		4	GVR-SH 350/7-p-MXE286	285

Accessories: Set of support rails, complete for C-modules in xEnergy.

For top-mounted busbars	EB20-XE2000SO	11
Without busbars or for rear-mounted busbars	EB20-XE2000SH	10

²⁾ Specify choking factor for p: p = 5.5%; p = 7%; p = 8%

Total power	Graded power	Switching sequence	Number of required modules type		Type	Weight ²⁾
			Multimod / Multiset	...25/1 ...50/1	Complete system in supplied section	pprox. (kg)
kvar	kvar				Article No.	

Modules choked for section width 600 mm and section depth 600/800 mm (with top-mounted busbars you can install up to a max. of 4 modules), DRAWER TECHNOLOGY, Dimensions (B x H x T) 495 x 325 x 350 mm

Total power	Graded power	Switching sequence	Number of required modules type		Type	Weight ²⁾
			Multimod / Multiset	...25/1 ...50/1	Complete system in supplied section	pprox. (kg)
kvar	kvar				Article No.	
100	25	1:1:2	2	1	Multimod-R100/04-1120-pp-66GH-MX	119
125	25	1:2:2	1	2	Multimod-R125/05-1220-pp-66GH-MX	131
150	25	1:1:1	2	2	Multimod-R150/06-1122-pp-66GH-MX	163
150	50	1:1:1		3	Multimod-R150/03-1110-pp-66GH-MX	143
175	25	1:2:2:2	1	3	Multimod-R175/07-1222-pp-66GH-MX	175
200	50	1:1:1:1		4	Multimod-R200/04-1111-pp-66GH-MX	187

Accessories: Set of support rails, complete for C-module in xEnergy.

Fitting kit (With a rear-mounted busbar you need to install a post at the front.)	Multimod-FSP 066 MX	11
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¹⁾ Specify choking factor for p: 05 = 5.5%; 07 = 7%; 08 = 8%

²⁾ Weight without section, only for power factor correction units in complete systems.

xEnergy Switchboards

Ordering aid for power factor correction components from the company KBR.

Supplier of correction modules, regulators and fans is the company KBR. The set-up of the xEnergy sections will be based on the offer and the set-up instructions of the company KBR.

Address: KBR GmbH; Am Kiefernschlag 7, 91126 Schwabach, Phone +49 9122 6373-0, Fax +49 9122 6373-83, mail: info@kbr.de

Total power	Power range	Switching sequence	Required number of modules type		Type	Weight ²⁾
kvar	kvar		Multimod	Multiset	Complete system in supplied section	approx. (kg)
			...25/1	...50/1	Article No.	

Modules choked for section width 600 mm and section depth 600/800 mm (with top-mounted busbars you can install up to a max. of 3 modules), DRAWER TECHNOLOGY, Dimensions (W x H x D) 495 x 325 x 350 mm

100	25	1:1:2	2	1	Multimod-R100/04-1120-pp-66GB-MX	160
125	25	1:2:2	1	2	Multimod-R125/05-1220-pp-66GB-MX	183
150	25	1:1:2:2	2	2	Multimod-R150/06-1122-pp-66GB-MX	225
150	50	1:1:1		3	Multimod-R150/03-1110-pp-66GB-MX	206
175	25	1:2:2:2	1	3	Multimod-R175/07-1222-pp-66GB-MX	248
200	50	1:1:1:1		4	Multimod-R200/04-1111-pp-66GB-MX	274

Accessories: Set of support rails, complete for C-modules in xEnergy.

Fitting kit (With a rear-mounted busbar, you need to install a post at the front)	Multimod-FSP 066 MX	11
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¹⁾ Specify choking factor for p: 12=12,5%; 14=14%

²⁾ Weight without section, only for power correction units in complete systems.

Total power	Power range	Switching sequence	Required number of modules		Type	Weight ³⁾
kvar	kvar		Multimod		Complete system in supplied section	approx. (kg)
			...50/1	...75/3	Article No. ²⁾	

Modules choked for section width 800 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 3 modules), DRAWER TECHNOLOGY, Dimensions (W x H x D) 695 x 325 x 550 mm

100	25	1:1:2			1	Multimod-R100/04-1120-pp-86GH-MX	97
125	25	1:2:2	1	1		Multimod-R125/05-1220-pp-86GH-MX	120
150	25	1:1:2:2		2		Multimod-R150/06-1122-pp-86GH-MX	141
150	50	1:1:1	1		1	Multimod-R150/03-1110-pp-86GH-MX	131
175	25	1:2:2:2		1	1	Multimod-R175/07-1222-pp-86GH-MX	152
200	25	1:1:2:2:2		1	1	Multimod-R200/08-1122-pp-86GH-MX	173
200	50	1:1:1:1			2	Multimod-R200/04-1111-pp-86GH-MX	183
250	50	1:1:1:2	1		2	Multimod-R250/05-1111-pp-86GH-MX	227
300	50	1:1:2:2			3	Multimod-R300/06-1112-pp-86GH-MX	303
350	50	1:1:1:2:2	1		3	Multimod-R350/07-1112-pp-86GH-MX	283
400	50	1:1:2:2:2			4	Multimod-R400/08-1122-pp-86GH-MX	315

Accessories: Set of support rails, complete for C-modules in xEnergy.

Fitting kit	Multimod-FSP 086 MX	11
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²⁾ Specify choking factor for p: 05 = 5.5%; 07 = 7%; 08 = 8%

³⁾ Weight without section, only for power factor correction components in complete systems

Total power	Power range	Switching sequence	Required number of modules		Type	Weight ³⁾
kvar	kvar		Multimod		Complete system in supplied section	approx. (kg)
			...50/1	...75/3	Article No. ²⁾	

Modules choked for section width 800 mm and section depth 600/800mm (with top-mounted busbars you can install up to a max. of 3 modules), DRAWER TECHNOLOGY, Dimensions (W x H x D) 695 x 325 x 550 mm

100	25	1:1:2			1	Multimod-R100/04-1120-pp-86GH-MX	136
125	25	1:2:2	1	1		Multimod-R125/05-1220-pp-86GH-MX	171
150	25	1:1:2:2		2		Multimod-R150/06-1122-pp-86GH-MX	201
150	50	1:1:1	1		1	Multimod-R150/03-1110-pp-86GH-MX	194
175	25	1:2:2:2		1	1	Multimod-R175/07-1222-pp-86GH-MX	224
200	25	1:1:2:2:2		1	1	Multimod-R200/08-1122-pp-86GH-MX	254
200	50	1:1:1:1			2	Multimod-R200/04-1111-pp-86GH-MX	247
250	50	1:1:1:2	1		2	Multimod-R250/05-1111-pp-86GH-MX	312
300	50	1:1:2:2			3	Multimod-R300/06-1112-pp-86GH-MX	365
350	50	1:1:1:2:2	1		3	Multimod-R350/07-1112-pp-86GH-MX	430
400	50	1:1:2:2:2			4	Multimod-R400/08-1122-pp-86GH-MX	483

Accessories: Set of support rails, complete for C-modules in xEnergy.

Fitting kit	Multimod-FSP 086 MX	11
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²⁾ Specify choking factor for p: 12 = 12.5%; 14 = 14%

³⁾ Weight without section, only for power factor correction units in complete systems.

xEnergy Switchboards

Regulators, control units, fans

Type

Article No.

Regulator 4-speed incl. display

with bus connection (KBR-Ebus or M00-Bus)

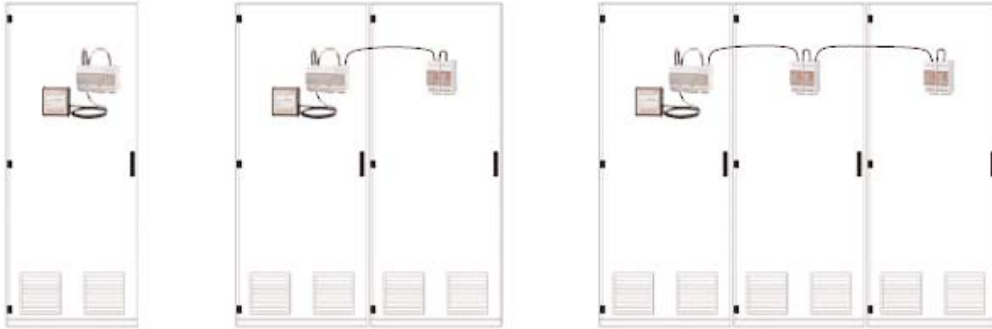
multicomp 4D6-ESBDS-1V1C6R0

Extension module 4-speed

multsio 1D2-4R0

Note: To set up the sections you usually use completely equipped control groups. These control groups come completely equipped. Individual components are usually only necessary to enhance existing systems.

"Module bus cables" for connecting the regulator components are included in the scope of delivery.



Top-mounted fan, exhaust type, IP30

150 m³/h

multimod-FAN-FL4-S

Top-mounted fan, exhaust type, IP54

150 m³/h

multimod-FAN-FL4-S-IP54

Incoming / Outgoing filter

multimod-FIL LG3

Filter pad

multimod-FMA3

Connection from below

ABG

Control assembly group

Regulator section for section width 600 mm

multimod-SM06-R04

multimod-SM06-R08

multimod-SM06-R12

for section width 800 mm

multimod-SM08-R04

multimod-SM08-R08

multimod-SM08-R12

Extension section for section width 600 mm

multimod-SM06-E04-T

multimod-SM06-E08-T

multimod-SM06-E12-T

for section width 800 mm

multimod-SM08-E04-T

multimod-SM08-E08-T

multimod-SM08-E12-T

xEnergy Switchboards

Ordering aid for power factor correction components from the company KBR

Supplier of correction modules, regulators and fans is the company KBR. The set-up of the xEnergy sections will be based on the offer and set-up instructions of the company KBR.

Address: KBR GmbH; Am Kieferschlag 7, 91126 Schwabach, Phone +49 9122 6373-0, Fax +49 9122 6373-83, mail: info@kbr.de

Components required for ventilation

Model	Total power up to kvar	Degree of protection	Type + number per section		
			FL1	FL4	LG3
unchoked					
	200	IP30	1	-	1
	200	IP54	-	1	1
	500	IP30	2	-	1
	500	IP54	-	1	1
choked					
	150	IP30	2	-	1
	150	IP54	-	1	1
	250	IP30	4	-	1
	250	IP54	-	1	1
	350	IP30	6	-	1
	350	IP54	-	1	1

Power factor correction components from KBR



VT19410



VT13310



VT10109



VT27209



wa_vt171913



VT07906



wa_vt68613

Section width mm	Frames depth 600 mm	Vertical profiles	Busbar support for PE/PEN	Separation p. Main busbar area/switchgear area	Separation p. Main busbar area/switchgear area	Separation p.	Crossbar	Set of support rails for correction modules to be ordered directly from KBR
			Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
Main busbar rear-mounted (or no main busbar), section depth 600 mm								
600	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBSP 283872	-	XPFCB04/06 110265	XPSS2006 284178	-	EB20-XE2000SH
800	XSFB0806 284238 122281 *	XSFH20 284245 122288 *	XBSP 283872	XPBM2008 288998	XPFCB08/10 110266	XPSS2006 284178	-	EB20-XE2000SH
Main busbar rear-mounted (or no main busbar), section depth 800 mm								
600	XSFB0608 284236 122279 *	XSFH20 284245 122288 *	XBSP 283872	-	XPFCB04/06 110265	XPSS2008 284179	-	EB20-XE2000SH
800	XSFB0808 284239 122282 *	XSFH20 284245 122288 *	XBSP 283872	XPBM2008 288998	XPFCB08/10 110266	XPSS2008 284179	-	EB20-XE2000SH
Section width mm	Frames depth 600 mm	Vertical profiles	Busbar support for PE/PEN	Partition busbar area/switchgear area	Separation	Crossbar	Set of support rails for correction modules to be ordered directly from KBR	
		Article No.	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit per unit	
Main busbars top-mounted								
600	XSFB0606 284235 122278 *	XSFH20 284245 122288 *	XBSP 283872	XPBMT0606 284112	XPSS2006 284178	XSFS06 284775	EB20-XE2000SO	

Note

* Finish in special RAL colour

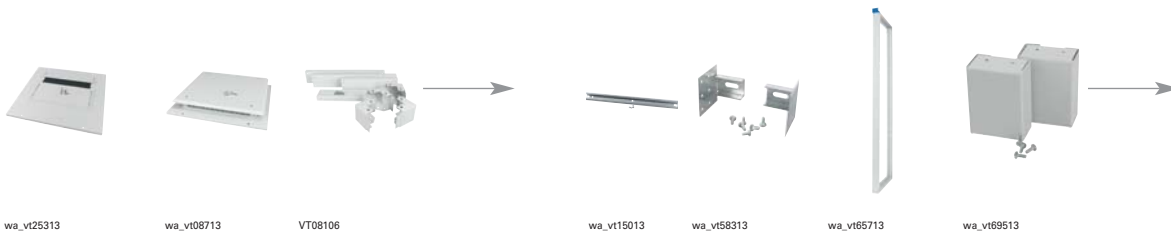


Door to switch gear area closed up to IP55	Door to switch gear area ventilated right up to IP31	Door to switch gear area ventilated left up to IP31	Door to switch gear area with glass up to IP55	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Top panel closed up to IP55	Top panel for flanges up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC2006 284199	XSDMRV2006 284219	XSDMLV2006 284210	XSDMD2006 284204	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320
122245 *	122265 *	122256 *	122250 *	122347 *	122352 *	122119 *	122320 *	122335 *
XSDMC2008 284200	XSDMRV2008 284220	XSDMLV2008 284211	XSDMD2008 284701	XSWC2008 284357	XSWV2008 284362	XAW2006 283857	XSPTC0806 284308	XSPTF0806 284323
122246 *	122266 *	122257 *	122358 *	122348 *	122353 *	122119 *	122323 *	122338 *
XSDMC2006 284199	XSDMRV2006 284219	XSDMLV2006 284210	XSDMD2006 284204	XSWC2006 284356	XSWV2006 284361	XAW2008 283858	XSPTC0608 284306	XSPTF0608 284321
122245 *	122265 *	122256 *	122250 *	122347 *	122352 *	122120 *	122321 *	122336 *
XSDMC2008 284200	XSDMRV2008 284220	XSDMLV2008 284211	XSDMD2008 284701	XSWC2008 284357	XSWV2008 284362	XAW2008 283858	XSPTC0808 284309	XSPTF0808 284324
122246 *	122266 *	122257 *	122358 *	122348 *	122353 *	122120 *	122324 *	122339 *

Door to switch gear area closed up to IP55	Door to switch gear area ventilated right up to IP31	Door to switch gear area ventilated left up to IP31	Door to switch gear area with glass up to IP55	Rear panel closed up to IP55	Rear panel ventilated up to IP31	Side panel up to IP55	Top panel closed up to IP55	Top panel for flanges up to IP55
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
XSDMC2006 284199	XSDMRV2006 284219	XSDMLV2006 284210	XSDMD2006 284204	XSWC2006 284356	XSWV2006 284361	XAW2006 283857	XSPTC0606 284305	XSPTF0606 284320
122245 *	122265 *	122256 *	122250 *	122347 *	122352 *	122119 *	122320 *	122335 *

Note

* Finish in special RAL colour



Top panel in several p. up to IP31 ¹⁾	Top panel ventilated up to IP31	Plinth height 100 mm	Plinth height 200 mm	Anchor rail	Fixing brackets for anchor rail	Add-on frame	Plinth for add-on frame H = 100mm	Plinth for add-on frame H = 200mm	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	XSAF200106 289908	XAP0101AF 289950	XAP0201AF 289951	
122305 *	122080 *	122094 *	122108 *			122389 *	122391 *	122392 *	
XSPBM0806 284293	XAD0806 283811	XAP010806 283829	XAP020806 283843	XAR08 283852	XNBW-R2 106740	XSAF200106 289908	XAP0101AF 289950	XAP0201AF 289951	
122308 *	122083 *	122097 *	122111 *			122389 *	122391 *	122392 *	
XSPBM0608 284291	XAD0608 283489	XAP010608 283827	XAP020608 283841	XAR06 283851	XNBW-R2 106740	XSAF200108 289909	XAP0101AF 289950	XAP0201AF 289951	
122306 *	122081 *	122095 *	122109 *			122390 *	122391 *	122392 *	
XSPBM0808 284294	XAD0808 283812	XAP010808 283830	XAP020808 283844	XAR08 283852	XNBW-R2 106740	XSAF200108 289909	XAP0101AF 289950	XAP0201AF 289951	
122309 *	122084 *	122098 *	122112 *			122390 *	122391 *	122392 *	

Top panel in several p. up to IP31 ¹⁾	Top panel ventilated up to IP31	Plinth height 100 mm	Plinth height 200 mm	Anchor rail	Fixing brackets for anchor rail	Add-on frame	Plinth for add-on frame H = 100mm	Plinth for add-on frame H = 200mm	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XSPBM0606 284290	XAD0606 283488	XAP010606 283826	XAP020606 283840	XAR06 283851	XNBW-R2 106740	XSAF200106 289908	XAP0101AF 289950	-	
122305 *	122080 *	122094 *	122108 *			122389 *	122391 *		

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

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- Accessories for XP sectionsPage 317
- Busbars/connection systems and accessoriesPage 328
- Fitting kits for outgoing sectionsPage 341
- Front panels/empty-space coversPage 346
- Outgoing sections - mounting plates/inserts/plug-type modules/partitionsPage 354
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xEnergy Switchboards

Notes

A large grid area for taking notes, consisting of approximately 30 columns and 40 rows of small squares. The grid is contained within a light blue border.

Basic Components

Frames	Page 290
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Side panels	Page 294
Top panels/Bottom panels	Page 295
Doors	Page 300

Fastening material is included in all Individual Components.

xEnergy Switchboards

Frames - compatible with XVTL

Come with blue design strip



VT13310

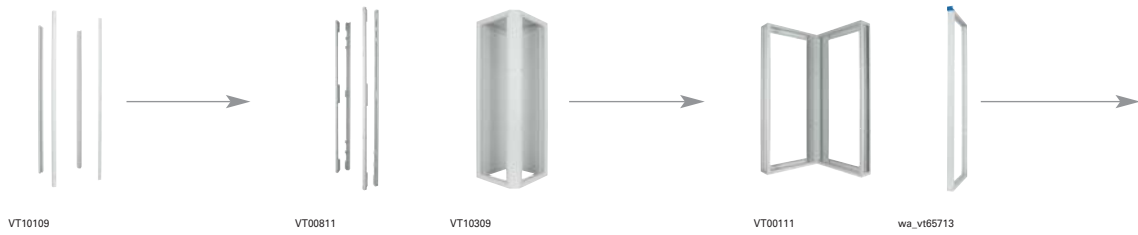
Section width mm	Frame depth 200 mm for 5000 A application consists of top and bottom element Article No. per unit unit = 1 set	Frame depth 400 mm consists of top and bottom element Article No. per unit unit = 1 set	Frame depth 600 mm consists of top and bottom element Article No. per unit unit = 1 set	Frame depth 800 mm consists of top and bottom element Article No. per unit unit = 1 set	
425	XSFB0402 150464 151686 *	XSFB0404 284231 122274 *	XSFB0406 284232 122275 *	XSFB0408 284233 122276 *	
600	XSFB0602 150465 151687 *	XSFB0604 284234 122277 *	XSFB0606 284235 122278 *	XSFB0608 284236 122279 *	
800	XSFB0802 150466 151688 *	XSFB0804 284237 122280 *	XSFB0806 284238 122281 *	XSFB0808 284239 122282 *	
850	XSFB08502 150467 151689 *	XSFB08504 143343 143479 *	XSFB08506 143345 143481 *	XSFB08508 143346 143482 *	
1000	XSFB1002 150468 151690 *	XSFB1004 284240 122283 *	XSFB1006 284241 122284 *	XSFB1008 284242 122285 *	
1100	XSFB1102 150469 151469 *	XSFB1104 143348 143484 *	XSFB1106 143350 143486 *	XSFB1108 132991 133039 *	
1200	XSFB1202 150480 151692 *	XSFB1204 132935	XSFB1206 284243 122286 *	XSFB1208 284244 122287 *	
1350	XSFB13502 150481 151693 *	XSFB13504 143352 143488 *	XSFB13506 143354 143490 *	XSFB13508 132992 133040 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Frames (cont.) - compatible with XVTL



Section depth mm	Vertical profiles consists of 4 profiles Article No. per unit unit = 1 set	Vertical profiles for box solution, only 1 post Article No. per unit unit = 1 pc.	Vertical profiles for 5000 A application consists of 4 profiles Article No. per unit unit = 1 set	Corner section H = 2000 mm W = 650 mm D = 600 mm including rear wall and top panel Article No. per unit unit = 1 set	Corner section H = 2000 mm W = 850 mm D = 800 mm including rear wall and top panel Article No. per unit unit = 1 set	Corner section extension set 1050x1050 for 5000 A application Article No. per unit unit = 1 set	Add-on frame (section width 75 mm) Article No. per unit unit = 1 pc.	Add-on frame for 5000 A application Article No. per unit unit = 1 pc.
	XSFH20 284245 122288 *	XSFH20-1 109254 122585 *	XSFH20-I-D 150482 151694 *	- -	- -	- -	- -	- -
600	-	-	-	XSC200606 286388 141839 *	-	-	XSAF200106 289908 122389 *	-
800	-	-	-	-	XSC200808 288867 141840 *	-	XSAF200108 289909 122390 *	-
1000	-	-	-	-	-	XSC200808-E10 150522	-	XSAF2000-150-1000 150493 151703 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Plinths - compatible with XVTL

Consist of: 4x corner element, 2x side plate, 2x front cover/rear cover



VT08106



wa_vt66713

Section width mm	Plinth Height 100mm Depth 400mm Article No. per unit unit = 1 pc.	Plinth Height 100mm Depth 600mm Article No. per unit unit = 1 pc.	Plinth Height 100mm Depth 800mm Article No. per unit unit = 1 pc.	Plinth Height 100mm Depth 1000mm for 5000 A application Article No. per unit unit = 1 pc.	Plinth Height 200mm Depth 400mm Article No. per unit unit = 1 pc.	Plinth Height 200mm Depth 600mm Article No. per unit unit = 1 pc.	Plinth Height 200mm Depth 800mm Article No. per unit unit = 1 pc.	Plinth Height 200mm Depth 1000mm for 5000 A application Article No. per unit unit = 1 pc.	Plinth for corner sections Height 100mm Article No. per unit unit = 1 pc.	Plinth for corner sections Height 200mm Article No. per unit unit = 1 pc.
425	XAP010404 283822 122090 *	XAP010406 283823 122091 *	XAP010408 283824 122092 *	XAP010410 150496 151707 *	XAP020404 283836 122104 *	XAP020406 283837 122105 *	XAP020408 283838 122106 *	XAP020410 150504 151715 *	-	-
600	XAP010604 283825 122093 *	XAP010606 283826 122094 *	XAP010608 283827 122095 *	XAP010610 150497 151708 *	XAP020604 283839 122107 *	XAP020606 283840 122108 *	XAP020608 283841 122109 *	XAP020610 150505 151716 *	XAP010606C 288868 122381 *	XAP020606C 288890 122383 *
800	XAP010804 283828 122096 *	XAP010806 283829 122097 *	XAP010808 283830 122098 *	XAP010810 150498 151709 *	XAP020804 283842 122110 *	XAP020806 283843 122111 *	XAP020808 283844 122112 *	XAP020810 150506 151717 *	XAP010808C 288869 122382 *	XAP020808C 288892 122384 *
850	XAP0108504 143303 143439 *	XAP0108506 143305 143441 *	XAP0108508 143306 143442 *	XAP0108510 150499 151710 *	XAP0208504 143316 143452 *	XAP0208506 143318 143454 *	XAP0208508 143319 143455 *	XAP0208510 150507 151718 *	-	-
1000	XAP011004 283831 122099 *	XAP011006 283832 122100 *	XAP011008 283833 122101 *	XAP011010 150500 151711 *	XAP021004 283845 122113 *	XAP021006 283846 122114 *	XAP021008 283847 122115 *	XAP021010 150508 151719 *	XAP011010C 150512 151723 *	XAP021010C 150513 151724 *
1100	XAP011104 143308 143444 *	XAP011106 143310 143446 *	XAP011108 133012 133060 *	XAP011110 150501 151712 *	XAP021104 143321 143457 *	XAP021106 143323 143459 *	XAP021108 133014 133062 *	XAP021110 150509 151720 *	-	-
1200	-	XAP011206 283834 122102 *	XAP011208 283835 122103 *	XAP011210 150502 151713 *	-	XAP021206 283848 122116 *	XAP021208 283849 122117 *	XAP021210 150510 151721 *	-	-
1350	XAP0113504 143312 143448 *	XAP0113506 143314 143450 *	XAP0113508 133013 133061 *	XAP0113510 150503 151714 *	XAP0213504 143325 143461 *	XAP0213506 143327 143463 *	XAP0213508 133015 133063 *	XAP0213510 150511 151722 *	-	-

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Plinths (cont.) - compatible with XVTL

Consist of: 4x corner element, 2x side plate, 2x front cover/rear cover



wa_vt69513

Frame width mm	Plinth for add-on frames height 100 mm Article No. per unit unit = 1 pair	Plinth for add-on frames height 200 mm Article No. per unit unit = 1 pair	Frame width mm	Plinth for add-on frames height 100 mm Article No. per unit unit = 1 pair	Plinth for add-on frames height 200 mm Article No. per unit unit = 1 pair
75	XAP0101AF 289950 122391 *	XAP0201AF 289951 122392 *	150	XAP01AF150 150491 151703 *	XAP02AF150 150492 151704 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Panels - compatible with XVTL



Section depth mm	Side panel for add-on frame up to IP55 Article No. per unit unit = 2 pcs.	Side panel up to IP55 Article No. per unit unit = 2 pcs.	Separation p. section/section Article No. per unit unit = 1 pc.	Section width mm	Rear panel closed up to IP55 Article No. per unit unit = 1 pc.	Rear panel ventilated up to IP31 Article No. per unit unit = 1 pc.	Rear panel ventilated up to IP42 Article No. per unit unit = 1 pc.
200	-	XAW2002 150494 151706 *	XPSS2002 150495	425	XSWC2004 284355 122346 *	XSWV2004 284360 122351 *	XTSZRV4-W425 172524
400	-	XAW2004 283856 122118 *	XPSS2004 284781	600	XSWC2006 284356 122347 *	XSWV2006 284361 122352 *	XTSZRV4-W600 172525
600	XAW2006AF 292908 122407 *	XAW2006 283857 122119 *	XPSS2006 284178	800	XSWC2008 284357 122348 *	XSWV2008 284362 122353 *	XTSZRV4-W800 172526
800	XAW2008AF 292909 122408 *	XAW2008 283858 122120 *	XPSS2008 284179	850	XSWC20085 143416 143552 *	XSWV20085 143417 143553 *	-
				1000	XSWC2010 284358 122349 *	XSWV2010 284363 122354 *	XTSZRV4-W1000 172520
				1100	XSWC2011 133000 133048 *	XSWV2011 133002 133050 *	XTSZRV4-W1100 172521
				1200	XSWC2012 284359 122350 *	XSWV2012 284364 122355 *	XTSZRV4-W1200 172522
				1350	XSWC20135 133001 133049 *	XSWV20135 133003 133051 *	XTSZRV4-W1350 172523

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

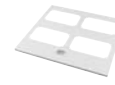
Top panels/Bottom panels - compatible with XVTL



wa_vt25613



wa_vt08713



wa_vt25613

Section width mm	Top panel Bottom panel closed 200 mm depth up to IP55 for 5000 A appliances Article No. per unit unit = 1 pc.	Top panel Bottom panel closed 400 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel closed 600 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel closed 800 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel ventilated 400 mm depth up to IP31 Article No. per unit unit = 1 pc.	Top panel ventilated 600 mm depth up to IP31 Article No. per unit unit = 1 pc.	Top panel ventilated 800 mm depth up to IP31 Article No. per unit unit = 1 pc.	Top panel Bottom panel with flanges 400 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel with flanges 600 mm depth up to IP55 Article No. per unit unit = 1 pc.
425	XSPTC0402 150483 151695 *	XSPTC0404 284301 122316 *	XSPTC0406 284302 122317 *	XSPTC0408 284303 122318 *	XAD0404 283484 122076 *	XAD0406 283485 122077 *	XAD0408 283486 122078 *	XSPTF0404 284316 122331 *	XSPTF0406 284317 122332 *
600	XSPTC0602 150484 151696 *	XSPTC0604 284304 122319 *	XSPTC0606 284305 122320 *	XSPTC0608 284306 122321 *	XAD0604 283487 122079 *	XAD0606 283488 122080 *	XAD0608 283489 122081 *	XSPTF0604 284319 122334 *	XSPTF0606 284320 122335 *
800	XSPTC0802 150485 151697 *	XSPTC0804 284307 122322 *	XSPTC0806 284308 122323 *	XSPTC0808 284309 122324 *	XAD0804 283810 122082 *	XAD0806 283811 122083 *	XAD0808 283812 122084 *	XSPTF0804 284322 122337 *	XSPTF0806 284323 122338 *
850	XSPTC08502 150486 151698 *	XSPTC08504 143391 143527 *	XSPTC08506 143393 143529 *	XSPTC08508 143394 143530 *	XAD08504 143289 143425 *	XAD08506 143291 143427 *	XAD08508 143292 143428 *	XSPTF08504 143404 143540 *	XSPTF08506 143406 143542 *
1000	XSPTC1002 150487 151699 *	XSPTC1004 284310 122325 *	XSPTC1006 284311 122326 *	XSPTC1008 284312 122327 *	XAD1004 283813 122085 *	XAD1006 283814 122086 *	XAD1008 283815 122087 *	XSPTF1004 284325 122340 *	XSPTF1006 284326 122341 *
1100	XSPTC1102 150488 151700 *	XSPTC1104 143396 143532 *	XSPTC1106 143398 143534 *	XSPTC1108 133004 133052 *	XAD1104 143294 143430 *	XAD1106 143296 143432 *	XAD1108 133010 133058 *	XSPTF1104 143409 143545 *	XSPTF1106 143411 143547 *
1200	XSPTC1202 150489 151701 *	XSPTC1204 284313 122328 *	XSPTC1206 284314 122329 *	XSPTC1208 284315 122330 *	-	XAD1206 283816 122088 *	XAD1208 283817 122089 *	XSPTF1204 284328 122343 *	XSPTF1206 284329 122344 *
1350	XSPTC13502 150490 151702 *	XSPTC13504 143400 143536 *	XSPTC13506 143402 143538 *	XSPTC13508 133005 133053 *	XAD13504 133299 143435 *	XAD13506 143301 143437 *	XAD13508 133011 133059 *	XSPTF13504 143413 143549 *	XSPTF13506 143415 143551 *

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Top panels/Bottom panels (cont.) - compatible with XVTL



wa_vt63213



wa_vt25313

Section width mm	Top panel Bottom panel with flanges 800 mm depth up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel with flanges 600 mm depth f. XF sections up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel with flanges 800 mm depth f. XF sections up to IP55 Article No. per unit unit = 1 pc.	Top panel Bottom panel in sev. parts 400 mm depth up to IP31 ¹⁾ Article No. per unit unit = 1 pc.	Top panel Bottom panel in sev. parts 400 mm depth 2 openings up to IP31 ¹⁾ Article No. per unit unit = 1 pc.	Top panel Bottom panel in sev. parts 600 mm depth up to IP31 ¹⁾ Article No. per unit unit = 1 pc.	Top panel Bottom panel in sev. parts 600 mm depth 2 openings up to IP31 ¹⁾ Article No. per unit unit = 1 pc.	Top panel Bottom panel in several parts 800 mm depth up to IP31 ¹⁾ Article No. per unit unit = 1 pc.
425	XSPTF0408 284318 122333 *	-	-	XSPBM0404 284286 122301 *	-	XSPBM0406 284287 122302 *	-	XSPBM0408 284288 122303 *
600	XSPTF0608 284321 122336 *	XSPTF0606-XF 121440 122626 *	XSPTF0608-XF 121441 122627 *	XSPBM0604 284289 122304 *	-	XSPBM0606 284290 122305 *	-	XSPBM0608 284291 122306 *
800	XSPTF0808 284324 122339 *	XSPTF0806-XF 121442 122628 *	XSPTF0808-XF 121443 122629 *	XSPBM0804 284292 122307 *	-	XSPBM0806 284293 122308 *	XSPBM0806-1 104533 122425	XSPBM0808 284294 122309 *
850	XSPTF08508 143407 143543 *	-	-	XSPBM08504 143365 143501 *	-	XSPBM08506 143367 143503 *	-	XSPBM08508 143368 143504 *
1000	XSPTF1008 284327 122342 *	XSPTF1006-XF 121444 122630 *	XSPTF1008-XF 121445 122631 *	XSPBM1004 284295 122310 *	-	XSPBM1006 104529 122421 *	XSPBM1006-1 284296 122311	XSPBM1008 104530 122422 *
1100	XSPTF1108 133006 133054 *	-	-	XSPBM1104 143370 143506 *	-	XSPBM1106 143372 143508 *	-	XSPBM1108 133008 133056 *
1200	XSPTF1208 284330 122345 *	XSPTF1206-XF 121446 122632 *	XSPTF1208-XF 121447 122633 *	XSPBM1204 132962 122313 *	XSPBM1204-1 284298	XSPBM1206 104531 122423 *	XSPBM1206-1 284299 122314	XSPBM1208 104532 122424 *
1350	XSPTF13508 133007 133055 *	-	-	XSPBM13504 143374 143510 *	-	XSPBM13506 143376 143512 *	-	XSPBM13508 133009 133057 *

... also for use in the Main Bus Bar Top (BBT) system

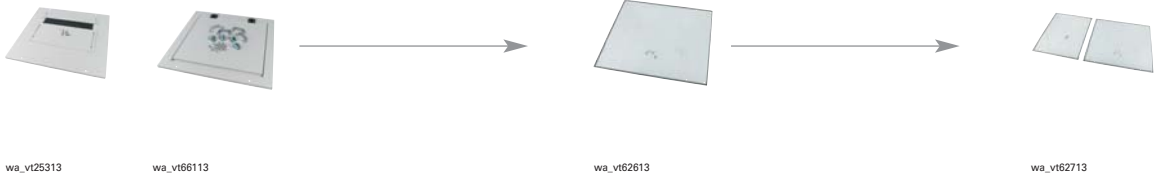
Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

xEnergy Switchboards

Top panels/Bottom panels (cont.) - compatible with XVTL



Section width mm	Top panel Bottom panel in sev. parts 800 mm depth 2 openings up to IP31 ¹⁾ Article No. per unit unit = 1 pc.	Top panel with arc fault protection 400 mm depth Article No. per unit unit = 1 pc.	Top panel with arc fault protection 600 mm depth Article No. per unit unit = 1 pc.	Top panel with arc fault protection 800 mm depth Article No. per unit unit = 1 pc.	Bottom panel galvanized 400 mm depth up to IP55 Article No. per unit unit = 1 pc.	Bottom panel galvanized 600 mm depth up to IP55 Article No. per unit unit = 1 pc.	Bottom panel galvanized 800 mm depth up to IP55 Article No. per unit unit = 1 pc.	Bottom panel galvanized 600 mm depth for XF sections up to IP55 Article No. per unit unit = 1 pc.
425	-	XSPTA0404 107256 122515 *	XSPTA0406 107257 122516 *	XSPTA0408 107258 122517 *	XSPBU0404 119910	XSPBU0406 119914	XSPBU0408 119919	-
600	-	XSPTA0604 107259 122518 *	XSPTA0606 107280 122519 *	XSPTA0608 107281 122520 *	XSPBU0604 119911	XSPBU0606 119915	XSPBU0608 119920	XSPBU0606-42 119924
800	XSPBM0808-1 104534 122426 *	XSPTA0804 107282 122521 *	XSPTA0806 107283 122522 *	XSPTA0808 107284 122523 *	XSPBU0804 119912	XSPBU0806 119916	XSPBU0808 119921	XSPBU0806-62 119925
	-	-	-	-	-	-	-	XSPBU0806-44 119926
850	-	XSPTA08504 143378 143514 *	XSPTA08506 143380 143516 *	XSPTA08508 143381 143517 *	XSPBU08504 143214	XSPBU08506 143216	XSPBU08508 143217	-
1000	XSPBM1008-1 284297 122312 *	XSPTA1004 107285 122524 *	XSPTA1006 107286 122525 *	XSPTA1008 107287 122526 *	XSPBU1004 119913	XSPBU1006 119917	XSPBU1008 119922	XSPBU1006-64 119927
1100	-	XSPTA1104 143383 143519 *	XSPTA1106 143385 143521 *	XSPTA1108 133016 133064 *	XSPBU1104 143219	XSPBU1106 143221	XSPBU1108 143222	-
1200	XSPBM1208-1 284300 122315 *	XSPTA1204 107288 122527 *	XSPTA1206 107289 122528 *	XSPTA1208 107290 122529 *	-	XSPBU1206 119918	XSPBU1208 119923	-
1350	-	XSPTA13504 143387 143523 *	XSPTA13506 143389 143525 *	XSPTA13508 133017 133065 *	XSPBU13504 143224	XSPBU13506 143226	XSPBU13508 143227	-

... also for use in the Main Bus Bar Top (BBT) system

Note

* Finish in special RAL colour

¹⁾ With cellular rubber sealing. In case of large cable cross-sections it may be necessary to provide for the appropriate degree of protection through additional measures.

xEnergy Switchboards

Top panels/Bottom panels (cont.) - compatible with XVTL

For configuration (bottom panel) see pages xx in the Technical Data section



wa_vt62713



wa_vt14313



wa_vt14213

Section width mm	Bottom panel galvanized 600 mm depth for PIFT sect. up to IP55 Article No. per unit unit = 1 set	Bottom panel galvanized 600 mm depth for PIFT sect.r with door to switchgear a. up to IP55 Article No. per unit unit = 1 set	Bottom panel galvanized 800 mm depth for XF sect. up to IP55 Article No. per unit unit = 1 set	Bottom panel galvanized 800 mm depth for PIFT sect.. up to IP55 Article No. per unit unit = 1 set	Bottom panel galvanized for PIFT sect. with door to switchgear a. up to IP55 Article No. per unit unit = 1 set	Bottom panel with foam 40 mm width of sect. 400-1200 mm up to IP20 Article No. per unit unit = 1 pc.	Bottom panel with foam 40 mm depth of sect. 400-800 mm up to IP20 Article No. per unit unit = 1 pc.	Bottom panel width 35 mm section width 400-1200 mm without foam up to IP20 Article No. per unit unit = 1 pc.
425	-	-	-	-	-	XSPBA0401 107679 122530 *	XSPBA0104 107684 122535 *	XSPBAC0401 107687 122538 *
600	-	-	XSPBU0608-42 119932	-	-	XSPBA0601 107680 122531 *	XSPBA0106 107685 122536 *	XSPBAC0601 107688 122539 *
	-	-	XSPBU0608-62 119933	-	-	XSPBA0601 107680 122531 *	XSPBA0106 107685 122536 *	XSPBAC0601 107688 122539 *
800	-	-	XSPBU0808-44 119934	-	-	XSPBA0801 107681 122532 *	XSPBA0108 107686 122537 *	XSPBAC0801 107689 122540 *
850	-	-	-	-	-	XSPBA08501 143355 143491 *	-	XSPBAC08501 143358 143494 *
1000	XSPBU1006-64-S 119928	XSPBU1006-73-S 119929	XSPBU1008-64 119935	XSPBU1008-64-S 119936	XSPBU1008-73-S 119937	XSPBA1001 107682 122533 *	-	XSPBAC1001 107690 122541 *
1100	-	-	-	-	-	XSPBA1101 143356 143492 *	-	XSPBAC1101 143360 143496 *
1200	XSPBU1206-66-S 119930	XSPBU1206-75-S 119931	-	XSPBU1208-66-S 119938	XSPBU1208-75-S 119939	XSPBA1201 107683 122534 *	-	XSPBAC1201 107691 122542 *
1350	-	-	-	-	-	XSPBA13501 143357 143493 *	-	XSPBAC13501 143362 143498 *

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Top panels/Bottom panels (cont.) - compatible with XVTL

For configuration (bottom panel) see pages xx in the Technical Data section



Section width mm	Bottom panel width 110 mm width of sect. 400-1200 mm without foam up to IP20 Article No. per unit unit = 1 pc.	Bottom panel width 35 mm depth of sect. 400-800 mm without foam up to IP20 Article No. per unit unit = 1 pc.	Bottom panel width 110 mm depth of sect. 400-800 mm without foam up to IP20 Article No. per unit unit = 1 pc.	Bottom panel width 700 mm for PIFT switchgear a. without foam up to IP20 Article No. per unit unit = 1 pc.	Top panel Bottom panel for corner sect. up to IP55 Article No. per unit unit = 1 pc.
425	XSPBAC0402 107692 122543 *	XSPBAC0104 107697 122548 *	XSPBAC0204 107700 122551 *	XSPBAC0702 107981 122554 *	-
600	XSPBAC0602 107693 122544 *	XSPBAC0106 107698 122549 *	XSPBAC0206 107701 122552 *	-	XSPBC0606C 288995 122385 *
800	XSPBAC0802 107694 122545 *	XSPBAC0108 107699 122550 *	XSPBAC0208 107702- 122553 *	-	-
850	XSPBAC08502 143359 143495 *	-	-	-	-
1000	XSPBAC1002 107695 122546 *	-	-	-	-
1100	XSPBAC1102 143361 143497 *	-	-	-	-
1200	XSPBAC1202 107696 122547 *	-	-	-	-
1350	XSPBAC13502 143363 143499 *	-	-	-	-

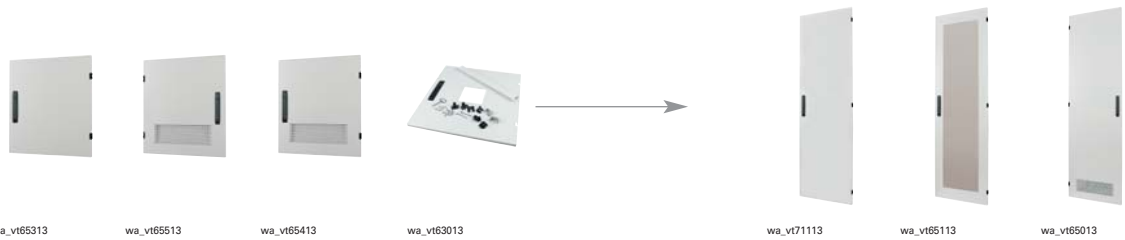
... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Doors - compatible with XVTL

Hinge included. Standard = two-way key bit lock 3 mm.



Section width mm	Door to switchgear a. closed left and right hingeable up to IP55	Door to switchgear a. ventilated left up to IP31	Door to switchgear a. ventilated right up to IP31	Door to switchgear area with 96/96 cut-out for measuring devices up to IP55	Door to switchgear area with 144/144 cut-out for measuring devices up to IP55	Section door closed left and right hingeable up to IP55	Section door with glass (transparent) left and right hingeable up to IP55	Section door ventilated left up to IP31
	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
	Doors in 3 parts					Doors as high as section		
425	XSDMC0604 284194 122240 *	XSDMLV0604 284205 122251 *	XSDMRV0604 284214 122260 *	XSDMC0604-1-96 112317 122607 *	XSDMC0604-1-144 112327 122612 *	XSDMC2004 284198 122244 *	XSDMD2004 284203 122249 *	XSDMLV2004 284209 122255 *
600	XSDMC0606 284195 122241 *	XSDMLV0606 284206 122252 *	XSDMRV0606 284215 122261 *	XSDMC0606-1-96 112318 122608 *	XSDMC0606-1-144 112328 122613 *	XSDMC2006 284199 122245 *	XSDMD2006 284204 122250 *	XSDMLV2006 284210 122256 *
800	XSDMC0608 284196 122242 *	XSDMLV0608 284207 122253 *	XSDMRV0608 284216 122262 *	XSDMC0608-1-96 112319 122609 *	XSDMC0608-1-144 112329 122614 *	XSDMC2008 284200 122246 *	XSDMD2008 284701 122358 *	XSDMLV2008 284211 122257 *
850	-	-	-	-	-	XSDMC20085 143330 143466 *	XSDMD20085 143333 143469 *	XSDMLV20085 143338 143474 *
1000	XSDMC0610 285506 122374 *	XSDMLV0610 285507 122375 *	XSDMRV0610 285508 122376 *	XSDMC0610-1-96 112320 122610 *	XSDMC0610-1-144 112330 122615 *	XSDMC2010 284201 122247 *	XSDMD2010-S¹⁾ 143334 143470 *	XSDMLV2010 284212 122258 *
1000	-	-	-	-	-	XSDMC2010-S¹⁾ 132952	-	-
1100	XSDMC0611 132995 133043 *	XSDMLV0611 132999 133047 *	XSDMRV0611 132997 133045 *	XSDMC0611-1-96 143329 143465 *	XSDMC0611-1-144 143328 143464 *	XSDMC2011-S¹⁾ 143331 143467 *	XSDMD2011-S¹⁾ 143335 143471 *	XSDMLV2011-S¹⁾ 143340 143476 *
1200	XSDMC0612 284197 122243 *	XSDMLV0612 284208 122254 *	XSDMRV0612 284217 122263 *	XSDMC0612-1-96 112321 122611 *	XSDMC0612-1-144 112331 122616 *	XSDMC2012-S¹⁾ 284202 122248 *	XSDMD2012-S¹⁾ 143336 143472 *	XSDMLV2012-S¹⁾ 284213 122259 *
1350	XSDMC06135 132996 133044 *	XSDMV06135 132998 133046 *	XSDMV06135 132998 133046 *	XSDMC06135-1-96 143285 149196 *	XSDMC06135-1-144 143284 149195 *	XSDMC20135-S¹⁾ 143332 143468 *	XSDMD20135-S¹⁾ 143337 143473 *	XSDMLV20135-S¹⁾ 143341 143477 *

... also for use in the Main Bus Bar Top (BBT) system

Note

- * Finish in special RAL colour
- ¹⁾ Double-winged door

xEnergy Switchboards

Doors (cont.) - compatible with XVTL

Hinge included. Standard = two-way key bit lock 3 mm.



Section width mm	Section door ventilated right up to IP31 Article No. per unit unit = 1 pc.	Doors to switchgear a. f. XF sections closed left and right hingeable up to IP55 Article No. per unit unit = 1 pc.	Doors to switchgear a. f. XF sections ventilated left up to IP31 Article No. per unit unit = 1 pc.	Doors to switchgear a. f. XF sections ventilated right up to IP31 Article No. per unit unit = 1 pc.	Doors to switchgear a. f. XF sections with glass (transparent) left and right hingeable up to IP55 Article No. per unit unit = 1 pc.	
Doors to switchgear area						
425	XSDMRV2004 284218 122264 *	XSDFMC2004 284184 122232 *	XSDFMLV2004 284188 122236 *	XSDFMRV2004 284190 122238 *	XSDFMD2004 284186 122234 *	
600	XSDMRV2006 284219 122265 *	XSDFMC2006 284185 122233 *	XSDFMLV2006 284189 122237 *	XSDFMRV2006 284191 122239 *	XSDFMD2006 284187 122235 *	
800	XSDMRV2008 284220 122266 *	-	-	-	-	
850	XSDMRV20085 143339 143475 *	-	-	-	-	
1000	XSDMRV2010 284221 122267 *	-	-	-	-	
1200	XSDMRV2012-S 284202 122268 *	-	-	-	-	

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Doors (cont.) - compatible with XVTL

Hinge included. Standard = two-way key bit lock 3 mm.



VT01311

Section width mm	Doors to switchgear a. closed H = 300 mm up to IP55	Doors to switchgear a. closed H = 350 mm up to IP55	
	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
Doors to switchgear area			
425	XSDMC0304 166747 166760 *	XSDMC03504 166746 166759 *	
600	XSDMC0306 166749 166762 *	XSDMC03506 166748 166761 *	
800	XSDMC0308 132916 132919 *	XSDMC03508 132917 132920 *	
Double winged doors			
800	-	XSDMC03508-S 132918 132921 *	
1000	XSDMC0310-S 167571 167529 *	XSDMC03510-S 167570 167576 *	
1100	XSDMC0311-S 167573 167531 *	XSDMC03511-S 167572 167530 *	
1350	XSDMC03135-S 167575 167533 *	XSDMC035135-S 167574 167532 *	

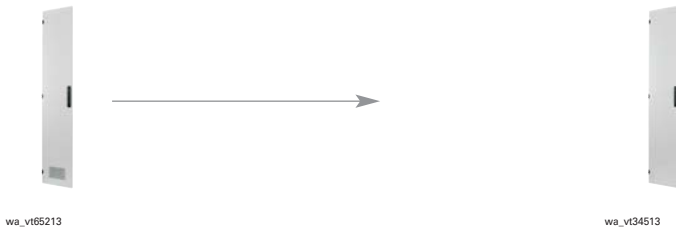
... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Doors (cont.) - compatible with XVTL

Hinge included. Standard = two-way key bit lock 3 mm.



Connection area width mm	Door to connection a. for SSL closed up to IP55 Article No. per unit unit = 1 pc.	Door to connection a. for SSL ventilated left up to IP31 Article No. per unit unit = 1 pc.	Door to connection a. for SSL ventilated right up to IP31 Article No. per unit unit = 1 pc.	Connection area width mm	Door to connection a. f. XF sections closed up to IP55 Article No. per unit unit = 1 pc.	
Doors to connection area						
300	XSDSCC2003 158591 158601 *	XSDSCLV2003 158586 158596 *	XSDSCRV2003 284226 122269 *	200	XSDFCC2002 284182 122230 *	
425	XSDSCC2004 158592 158602 *	XSDSCLV2004 158587 158597 *	XSDSCRV2004 284227 122270 *	200	XSDFCC2002-1 284700 122357 *	
500	XSDSCC2005 158593 158603 *	XSDSCLV2005 158588 158598 *	XSDSCRV2005 284228 122271 *	400	XSDFCC2004 284183 122231 *	
600	XSDSCC2006 158594 158604 *	XSDSCLV2006 158589 158599 *	XSDSCRV2006 284229 122272 *	425	XSDFMC2004 284184 122232 *	
				600	XSDFCC2006 102052 122416 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Doors (cont.) - compatible with XVTL

Hinge included. Standard = two-way key bit lock 3 mm.



wa_vt65013

Switchgear area width mm	Door to switchgear area for SSL sections closed up to IP55 Article No. per unit unit = 1 pc.	Door to switchgear area for SSL sections ventilated left up to IP31 Article No. per unit unit = 1 pc.	Door to switchgear area for SSL sections ventilated right up to IP31 Article No. per unit unit = 1 pc.	
	Doors to switchgear area			
600	XSDSMC2007 158595 158605 *	XDSMLV2007 284230 122273 *	XDSMRV2007 158590 158600 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Doors for Box Solution - compatible with XVTL

Hinge included. Standard = two-way key bit lock 3 mm.



wa_vt63113

Height mm	For standard XF section with cable connection area	Doors to switchgear a. width 425 mm left and right hingeable up to IP55	Doors to switchgear a. width 600 mm left and right hingeable up to IP55	For standard XF section without cable connection area	Doors to switchgear a. width 600 mm left and right hingeable up to IP55	Doors to switchgear a. width 800 mm left and right hingeable up to IP55
		Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.		Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
Doors for Box Solution						
200		XSDFMC0204 109240 122573 *	XSDFMC0206 109246 122579 *		XSDBSC0206 167537 167543 *	XSDBSC0208 171686 171713 *
250		-	-		XSDBSC02506 171680 171707 *	XSDBSC02508 171687 171714 *
300		XSDFMC0304 109241 122574 *	XSDFMC0306 109247 122580 *		XSDBSC0306 167538 167544 *	XSDBSC0308 171688 171715 *
350		XSDFMC0304-1 109242 122575 *	XSDFMC0306-1 109248 122581 *		XSDBSC03506 167539 167545 *	XSDBSC03508 171689 171716 *
400		XSDFMC0404 109243 122576 *	XSDFMC0406 109249 122582 *		XSDBSC0406 167540 167546 *	XSDBSC0408 171690 171717 *
500		XSDFMC0504 109244 122577 *	XSDFMC0506 109250 122583 *		XSDBSC0506 167541 167547 *	XSDBSC0508 171691 171718 *
600		XSDFMC0604 109245 122578 *	XSDFMC0606 109251 122584 *		XSDBSC0606 167542 167548 *	XSDBSC0608 171692 171719 *
800		-	-		XSDBSC0806 171681 171708 *	XSDBSC0808 171693 171720 *
975		-	-		XSDBSC097506 171682 171709 *	XSDBSC097508 171694 171721 *
1000		-	-		XSDBSC1006 171683 171710 *	XSDBSC1008 171695 171722 *
1200		-	-		XSDBSC1206 171684 171711 *	XSDBSC1208 171696 171723 *

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

Fitting Kits for XP Sections

IZMX16	Page 307
IZM 20	Page 308
IZM 32	Page 309
IZM 40	Page 310
IZM 63	Page 311
IZMX40	Page 312
NZM 3 Form 4	Page 313
NZM 4 Form 2/4	Page 314

xEnergy Switchboards

Overview of fitting kits for IZM 40

Including base plate, front plate, fastening bracket and fastening material.

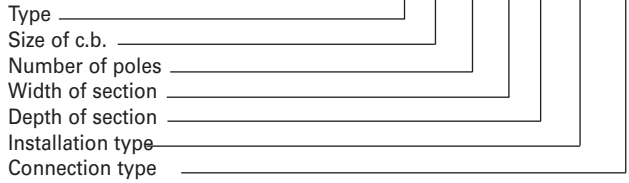


VT21809

- Version 1:** Fixed installation type
- Version 2:** Withdrawable
- Version 3:** Fixed, incl. mechanical locking
- Version 4:** Withdrawable, incl. mechanical locking
- Version 5:** Withdrawable, with position indicator
- O** = OPPO
- E** = EVEN

Key:

XMI40/3+4/06/08/F+W/E+O



Fitting kit	Fitting kit with modular door	Poles OPPO/EVEN Version	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
Article No. per unit	Article No. per unit		0	0	0	0	0	E	E	E	E	E	E	E	0	0	0	0	0	E	E	E	E	E	E	E	E	E	5	
Circuit breaker IZM 40																														
XMI16/3_/04/06/F_/E+O	XMI16/3_/04/06/F_/E+O/D																													
132970	134441																													
133018 *	134462 *																													
XMI16/3+4/06/06/F_/E+O	XMI16/3+4/06/06/F_/E+O/D																													
132971	134442																													
133019 *	134463 *																													
XMI16/3_/04/06/_W/E+O	XMI16/3_/04/06/_W/E+O/D																													
132972	134443																													
133020 *	134464 *																													
XMI16/3+4/06/06/_W/E+O	XMI16/3+4/06/06/_W/E+O/D																													
132973	134444																													
133021 *	134465 *																													
XMI20/3+4/06/06/F_/E+O	XMI20/3+4/06/06/F_/E+O/D																													
132976	134447																													
133024 *	134468 *																													
XMI20/3+4/06/06/F+W/_O	XMI20/3+4/06/06/F+W/_O/D																													
132974	134445																													
133022 *	134466 *																													
XMI20/3+4/06/06/_W/E_	XMI20/3+4/06/06/_W/E_/D																													
132975	134446																													
133023 *	134467 *																													
XMI20/3+4/06/08/F+W/E+O	XMI20/3+4/06/08/F+W/E+O/D																													
132977	134448																													
133025 *	134469 *																													
XMI32/3_/06/06/F_/E+O	XMI32/3_/06/06/F_/E+O/D																													
132978	134449																													
133026 *	134470 *																													
XMI32/3_/06/06/_W/_O	XMI32/3_/06/06/_W/_O/D																													
132980	134451																													
133028 *	134472 *																													
XMI32/3_/06/06/_W/E_	XMI32/3_/06/06/_W/E_/D																													
132981	134452																													
133029 *	134473 *																													
XMI32/3_/06/08/F+W/E+O	XMI32/3_/06/08/F+W/E+O/D																													
132982	134453																													
133030 *	134474 *																													
XMI32/3_4/08/06/F_/E+O	XMI32/3_4/08/06/F_/E+O/D																													
132983	134454																													
133031 *	134475 *																													
XMI32/3_4/08/06/_W/_O	XMI32/3_4/08/06/_W/_O/D																													
132985	134456																													
133033 *	134477 *																													
XMI32/3+4/08/06/_W/E_	XMI32/3+4/08/06/_W/E_/D																													
132986	134457																													
133034 *	134478 *																													
XMI32/3_4/08/08/F+W/E+O	XMI32/3_4/08/08/F+W/E+O/D																													
132987	134458																													
133035 *	134479 *																													
XMI40/3+4/10/08/_W/_O	XMI40/3+4/10/08/_W/_O																													
132988	134459																													
133036 *	134480 *																													
XMI40/3+4/10/08/_W/E_	XMI40/3+4/10/08/_W/E_/D																													
135254	135252																													
135255 *	135253 *																													
XMI40/3+4/11/08/F+W/_O	-																													
149187																														
149197 *																														
XMI40/3+4/11/08/F+W/E_	-																													
149188																														
149198 *																														
XMI63/3_/11/08/F+W/E+O	XMI63/3_/11/0																													

xEnergy Switchboards

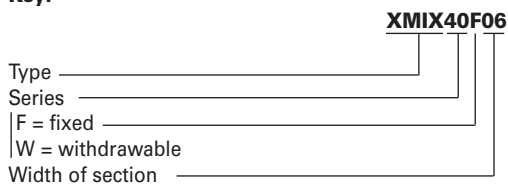
Overview of Fitting Kits for IZMX40



VT21709

Section width mm	IZMX40 in section d. of 600/800mm Fixed design in OPPO/EVEN	IZMX40 in section d. of 600/800mm Withdrawable in OPPO	IZMX40 in section depth of 600mm Withdrawable in EVEN
	Article No. per unit	Article No. per unit	Article No. per unit
600	XMIX40F06 166751 166764 *	XMIX40W06 166754 166767 *	XMIX40W06-50 166757 166770 *
800	XMIX40F08 166752 166765 *	XMIX40W08 166755 166768 *	XMIX40W08-50 166758 166771 *
1000	XMIX40F10 ** 166753 166766 *	XMIX40W10 ** 166756 166769 *	

Key:



Number of poles:
 Width of section 600 mm = 3poles
 Width of section 600-1000 mm = 3+4 poles

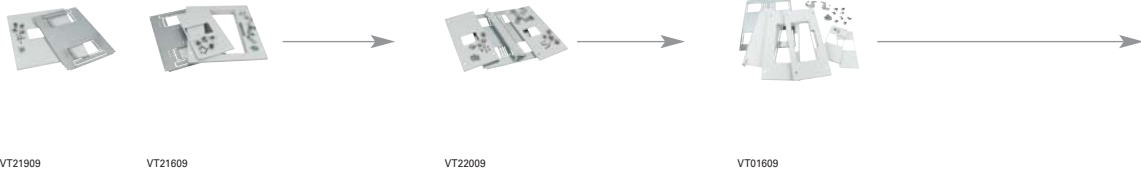
Note

- * Finish in special RAL colour
- ** 1000mm section width is only possible with a section depth of 800mm

xEnergy Switchboards

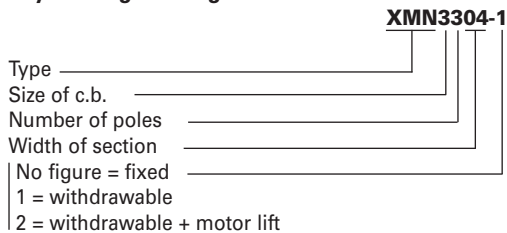
Fitting kits NZM 3 Form 4

Including base plate, front plate, fastening bracket, cross ridges and fastening material.

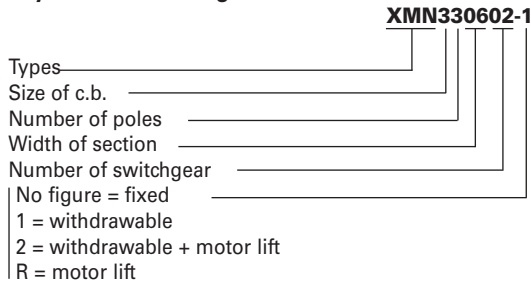


Section width mm	Fitting kit for NZM 3 in incoming/outgoing sect.	Fitting kit for NZM 3 in incoming/outgoing sect. Outgoing s. is withdrawable	Fitting kit for NZM 3 in incoming/outgoing s. Outgoing s. is withdrawable with motor lift	Fitting kit for 2 NZM 3 3 poles in incoming/outgoing sect	Fitting kit for 2 NZM 3 4 poles in incoming/outgoing sect	Fitting kit for 2 NZM 3 3 poles in incoming/outgoing sect withdrawable	Fitting kit for 2 NZM 3 3 poles in incoming/outgoing sect with motor lift	Fitting kit for 2 NZM 3 4 poles in incoming/outgoing sect withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
NZM 3 Form 4								
425	XMN3304 124411 124412 *	XMN3304-1 129009 129012 *	XMN3304-2 129010 129013 *	-	-	-	-	-
600	-	-	-	XMN330602 107982 122555 *	XMN340602 107983 122556 *	XMN330602-1 110274 122602 *	XMN330602-R 110277 122605 *	-
800	-	-	-	-	-	-	-	XMN340802-1 110275 122603 *

Key for single fitting kits:



Key for double fitting kits:



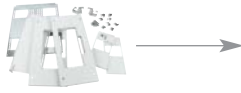
Note

* Finish in special RAL colour

xEnergy Switchboards

Fitting kits NZM 3 Form 4 (cont.)

Including base plate, front plate, fastening bracket, cross ridges and fastening material.



VT01609

Section width mm	Fitting kit for 2 NZM 3 3 poles in incoming/outgoing sect. withdrawable with motor lift Article No. per unit	Fitting kit for 2 NZM 3 4 poles in incoming/outgoing sect. withdrawable with motor lift Article No. per unit	
	NZM 3 Form 4		
425	-	-	
600	XMN330602-2 125995 125996 *	-	
800	-	XMN340802-2 125997 125998 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Mounting plates, fitting kits NZM 4 Form 2/4

Including base plate, front plate, fastening bracket, cross ridges and fastening material.



VT00909



VT21909

Section width mm	Mounting plate NZM 4 incoming/outgoing s. fixed/withdrawable/motor lift width 425 mm Article No. per unit	Mounting plate NZM 4 incoming/outgoing s. fixed/withdrawable/motor lift width 600 mm Article No. per unit	Mounting plate NZM 4 incoming/outgoing s. fixed/withdrawable/motor lift width 800 mm Article No. per unit	Fitting kit for NZM 4 3 poles in incoming/outgoing s. Article No. per unit	Fitting kit for NZM 4 4 poles in incoming/outgoing s. Article No. per unit	Fitting kit for NZM 4 4 poles in incoming/outgoing s. UK Article No. per unit	Fitting kit for NZM 4 4 poles in incoming/outgoing s. for rotary drive UK Article No. per unit	Fitting kit for NZM 4 4 poles in incoming/outgoing sect. withdrawable UK Article No. per unit
	NZM 4 Form 2¹⁾			NZM 4 Form 4				
425	XMN442404MVF 284081	-	-	XMN4304 284068 122202 *	XMN4404 284077 122202 *	-	-	-
600	-	XMN442406MVF 284085	-	XMN4306 292903 122402 *	XMN4406 292906 122405 *	XMN4406-UK 110251 122593 *	XMN4406-RH-UK 121890 122638 *	XMN4406-1-UK 110250 122592 *
800	-	-	XMN442408MVF 290348	-	-	-	-	-

Key for 2 mounting plate (NZM 4):

XMN442406MVF

Type	_____
Size of c.b.	_____
Number of poles	_____
Height of mounting plates in module heights	_____
1 MO = 25 mm	_____
Width of section	_____
Mounting plate	_____
Vertical	_____

Key for NZM 4 (4) fitting kits:

XMN4406-2-UK

Type	_____
Size of c.b.	_____
Number of poles	_____
Size of sect.	_____
No figure = fixed	_____
1 = withdrawable	_____
2 = withdrawable + remote op.	_____
United Kingdom	_____

Note

* Finish in special RAL colour

1) Form 2 does not require different mounting plates (fixed, withdrawable, motor lift).

xEnergy Switchboards

Fitting kits for NZM 4 Form 4 (cont.)

Including base plate, front plate, fastening bracket, cross ridges and fastening material.



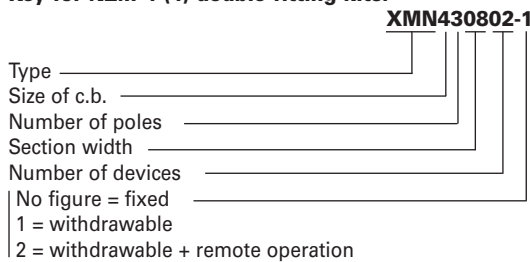
VT21609



VT22009

Section width mm	Fitting kit for NZM 4 3 poles in incoming/outgoing s. withdrawable	Fitting kit for NZM 4 4 poles in incoming/outgoing s. withdrawable	Fitting kit for NZM 4 3 poles in incoming/outgoing s. withdrawable remote oper.	Fitting kit for NZM 4 4 poles in incoming/outgoing s. withdrawable remote oper.	Fitting kit for 2 NZM 4 3 poles in incoming/outgoing s.	Fitting kit for 2 NZM 4 3 poles in incoming/outgoing s. withdrawable remote oper.	Fitting kit for 2 NZM 4 4 poles in incoming/outgoing s.	Fitting kit for 2 NZM 4 3 poles in incoming/outgoing s. withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
NZM 4 Form 4								
425	XMN4304-1 284853 122373 *	-	XMN4304-2 290205 122394 *	-	-	-	-	-
600	XMN4306-1 292904 122403 *	XMN4406-1 284078 122208 *	XMN4306-2 292905 122404 *	XMN4406-2 290206 122395 *	XMN430602 107984 122557 *	-	-	-
800	-	-	-	-	XMN430802 107985 122558 *	XMN430802-2 125999 126000 *	XMN440802 107986 122559 *	XMN430802-1 110276 122604 *

Key for NZM 4 (4) double fitting kits:



Note

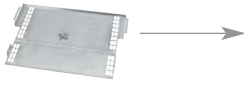
* Finish in special RAL colour

Accessories for XP Sections

Accessories for incoming supplies/outgoers	Page 318
Snap-on covers	Page 327

xEnergy Switchboards

Accessories for incoming supplies/outgoers, various partitions for IZM/NZM4



wa_vt70913

Section width mm	Partition busbar area/ connection a. (only NZM) section depth 600 mm Form 4 Article No. per unit	Partition busbar area/ connection a. (only NZM) section depth 800 mm Form 4 Article No. per unit			
425	XPNBCB0402 289174	XPNBCB0404 289176			
600	XPNBCB0602 289175	XPNBCB0604 289177			
800	XPNBCB0802 118735	XPNBCB0804 118736			
1000	-	-			
1200	-	-			

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for incoming supplies/outgoers, various partitions for IZM/NZM4 (cont.)



wa_vt71313

Section width mm	Partition busbar area/ connection area (for IZMX16) section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/ connection area (for IZMX16) section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/ connection area (for IZMX40) section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/ connection area (for IZMX40) section depth 800 mm Form 2/4 Article No. per unit	Partition busbar area/ connection area (for IZM26) section depth 600 mm Form 2/4 Article No. per unit	Partition busbar area/ connection area (for IZM26) section depth 800 mm Form 2/4 Article No. per unit
400	XPIXBCB-H-0402 133087	XPIXBCB-H-0404 133088	-	-	-	-
600	XPIXBCB-H-0602 133089	XPIXBCB-H-0604 133090	XPIX40BCB-H-0602 166226	XPIX40BCB-H0604 166223	XPIBCB-H-0602 133091	XPIBCB-H-0604 133092
800	-	-	XPIX40BCB-H-0802 166227	XPIX40BCB-H0804 166224	XPIBCB-H-0802 133093	XPIBCB-H-0804 133094
1000	-	-	-	XPIX40BCB-H1004 166225	-	XPIBCB-H-1004 133095
1100	-	-	-	-	-	XPIBCB-H-1104 133096
1200	-	-	-	-	-	-
1350	-	-	-	-	-	XPIBCB-H-13504 133097

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for incoming supplies/outgoers, various partitions for IZM/NZM4 (cont.)



VT05611

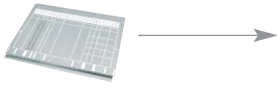
Section width mm	Partition extension for 5000 A application busbar area/ main busbar area/ (suitable for IZM and NZM)		Partition busbar area/ switchgear area (for IZMX16) Form 2/4 withdrawable	Partition busbar area/ switchgear area (for IZMX16) Form 2/4 fixed	Partition busbar area/ switchgear area (for IZMX40) Form 2/4 withdrawable	Partition busbar area/ switchgear area (for IZMX40) Form 2/4 fixed
	Article No. per unit		Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
400	XPIBCB-H-04019 150514		XPIXMCB0604 135261	XPIXFBMCB0604 151674	-	-
600	XPIBCB-H-06019 150515		XPIXMCB0606 135262	XPIXFBMCB0606 151675	XPIX40WBMCB0606 166220	XPIX40FBMCB0606 164349
800	XPIBCB-H-08019 150516		-	-	XPIX40WBMCB0608 166222	XPIX40FBMCB0608 166221
1000	XPIBCB-H-10019 150518		-	-	XPIX40WBMCB0610 164348	XPIX40FBMCB0610 164347
1100	XPIBCB-H-11019 150519		-	-	-	-
1200	XPIBCB-H-12019 150520		-	-	-	-
1350	XPIBCB-H-135019 150521		-	-	XPI26BMCB06135 133086	-

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for incoming supplies/outgoers, various partitions for IZM/NZM4 (cont.)



wa_vt70113

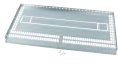
Section width mm	Partition busbar area/ switchgear area (for IZM26) Form 2/4 withdrawable	Partition busbar area/ switchgear area (for IZM26) Form 2/4 fixed	
	Article No. per unit	Article No. per unit	
400	-	-	
600	XPI26BMBCB0606 135259	XPI26FBMCB0606 149183	
800	XPI26BMBCB0608 135260	XPI26FBMCB0608 149184	
1000	XPI26BMCB0610 133084	XPI26FBMCB0610 149185	
1100	XPI26BMCB0611 133085	XPI26FBMCB0611 149186	
1200	-	-	
1350	XPI26BMCB06135 133086	-	

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for incoming supplies/outgoers, various partitions for IZM/NZM4 (cont.)



wa_vt62413



wa_vt71213

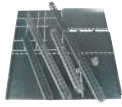
Section width mm	Partition connection a./ switchgear a. (only NZM) Form 4	Partition switchgear a./ switchgear a. Form 4	Partition switchgear a./ switchgear a. (for IZMX16) Form 4	Partition switchgear a./ switchgear a. (for IZMX40) with application EVEN/OPPO/ fixed + withdrawable/ in section depth 800mm+ section depth 600mm in OPPO Form 4	Partition switchgear a./ switchgear a. (for IZMX40) with application EVEN/ withdrawable only with section depth 600mm	Partition connection a./ busbar area (only NZM) section depth 400 mm Form 2	Partition connection a./ busbar area (only NZM) section depth 600 mm Form 2	Partition connection a./ busbar area (only NZM) areas of section depth 800 mm Form 2
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
400	XPNCB04 284174	XPMMB0404 284163	XPMMB0402 135263	-	-	XPNBCT0402 285501	XPNBCT0404 285502	XPNBCB0406 285523
600	XPNCB06 284175	XPMMB0604 284164	XPMMB0602 135264	XPMMB0603 166239	XPMMB0602 153364	XPNBCT0602 285503	XPNBCT0604 285504	XPNBCB0606 285522
800	XPNCB08 116455	XPMMB0804 284165	-	XPMMB0803 166240	XPMMB0802 167314	-	XPNBCT0804 135258	XPNBCB0806 135257
1000	-	XPMMB1004 133081	-	XPMMBA10 166698	-	-	-	-
1100	-	XPMMB1104 133082	-	-	-	-	-	-
1200	-	XPMMB1204 284166	-	-	-	-	-	-
1350	-	XPMMB13504 133083	-	-	-	-	-	-

Note

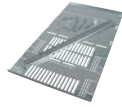
* Finish in special RAL colour

xEnergy Switchboards

Accessories for incoming supplies/outgoers, various partitions for IZM/NZM4 (cont.)



VT00911



wa_vt2013



VT05711



VT01009



wa_vt70513

Section width mm	Separation p. between connection 2x NZM3 or NZM4 Article No. per unit	Partition between incoming supply copper and connection copper on main busbar with NZM Form 4 Article No. per unit	Additional partition between mounting plate and main busbar to get optimal ventilation/cooling (chimney effect) with 4000A XP sections only Article No. per unit	Partition between incoming supply copper and connection copper on main busbar with IZMX16 Form 4 Article No. per unit	Partition between incoming supply copper and connection copper on main busbar with IZM26 Form 4 Article No. per unit	Partition connection area Form 4 Article No. per unit	
400	XPNCCB 126009	XPNBCB-E-04 121448	-	XPIXBCB-E-04 151676	-	XPC0604 284115	
600	-	XPNBCB-E-06 121449	-	XPIXBCB-E-06 151677	XPI26BCB-E-06 151678	XPC0606 284116	
800	-	XPNBCB-E-08 121450	-	-	XPI26BCB-E-08 151679	XPC0608 284117	
1000	-	XPNBCB-E-10 121451	XPPBMV10 166741	-	XPI26BCB-E-10 151680	XPC0610 133078	
1100	-	-	-	-	XPI26BCB-E-11 151681	XPC0611 133079	
1200	-	XPNBCB-E-12 121452	-	-	-	XPC0612 284118	
1350	-	-	-	-	XPI26BCB-E-135 151682	XPC06135 133080	

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for incoming supplies/outgoers, various partitions for IZM/NZM4 (cont.)



VT23509



VT01111



wa_vt62813

Section width mm	Partition switchgear a./ busbar area (mounting plate) Form 2/4	Partition switchgear a./ busbar area (mounting plate H = 350 mm)	Partition switchgear a./ busbar area (mounting plates) separated 2x 400 mm for a sect. width of 800 mm H = 350 mm	Partition switchgear a./ busbar area (mounting plate) Form 2/4 suitable for IZM26	Separation panel to be able to split the switchgear area above the switchgear (suitable for XPBMB03508-S)	Swivel-mounted separation panel switchgear a./ busbar area suitable for NZM3+4	Swivel-mounted separation panel switchgear a./ busbar area suitable for IZM26
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
400	XPBMB0604 284107	XPBMB03504 166693	-	-	-	XPBMB0604-ROT 112312	-
600	XPBMB0606 284108	XPBMB03506 166695	-	XPBMB0506 133066	-	XPBMB0606-ROT 112313	XPBMB0506-ROT 149189
800	XPBMB0608 284109	XPBMB03508 132922	XPBMB03508-S 132923	XPBMB0508 133067	XPBCV03504 132924	XPBMB0608-ROT 112314	XPBMB0508-ROT 149190
1000	XPBMB0610 102949	-	XPBMB03510-S 167567	XPBMB0510 133068	-	XPBMB0610-ROT 112315	XPBMB0510-ROT 149191
1100	-	-	XPBMB03511-S 167568	XPBMB0511 133069	-	-	XPBMB0511-ROT 149192
1200	XPBMB0612 284110	-	-	-	-	XPBMB0612-ROT 112316	-
1350	-	-	XPBMB035135-S 167569	XPBMB05135 133070	-	-	XPBMB05135-ROT 149193

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for incoming supplies/outgoers (cont.)



VT24209

Door sealing frame to cover the door cut-out for IZMX16 fixed	Door sealing frame to cover the door cut-out for IZMX16 withdrawable	Door sealing frame to cover the door cut-out for IZMX40 fixed	Door sealing frame to cover the door cut-out for IZMX40 withdrawable	Door sealing frame to cover the door cut-out for IZM20/32/40/63		
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit		
IZMX-DEG16-F 124335	IZMX-DEG16-W 124390	IZMX-DEG40-F 156665	IZMX-DEG40-W 156666	IZM-DEG 122925		

Accessories for incoming supplies/outgoers (cont.)



VT00612

Cooling unit for IZMX40 1 K/W D = 100 mm	
Article No. per unit	
XACP1K100 167566	

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for incoming supplies/outgoers (cont.)



wa_vt57313

Adapter frame for IZMX16, suitable for protective cover no. 122926	Adapter frame for protective cover suitable for IZMX40 series / fixed + withdraw. design	Adapter frame for IZM26, suitable for protective cover no. 122926		
Article No. per unit	Article No. per unit	Article No. per unit		
XMIX16-XDT 168119	XMIX40-XDT 166750	XMI26-XDT 151684		
168120 *		151685 *		

Accessories for incoming supplies/outgoers (cont.)



wa_vt72713

Protective cover made of plexiglas for IP55 with IZM13 fixed	Protective cover made of plexiglas for IP55 with IZMX16 IZMX40 IZM26		
Article No. per unit	Article No. per unit		
IZM-XDT 230750	IZM-DC 122926		

IZM-DC ... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Snap-on covers



Section width mm	Snap-on cover without cut-out	2xsnap-on cover without cut-out	Bar for snap-on cover	
	Article No. per unit	Article No. per unit	Article No. per unit	
400	XMC0604 102945 122417 *	-	XSFD0604 113991 122618 *	
600	XMC0606 102946 122418 *	XMC060602 107987 122560 *	XSFD0606 113992 122619 *	
800	XMC0608 102947 122419 *	XMC060802 107988 122561 *	XSFD0608 113993 122620 *	
1000	XMC0610 102948 122420 *	-	XSFD0610 113994 122621 *	
1100	XMC0611 132993 133041 *	-	-	
1200	XMC0612 113990 122617 *	-	XSFD0612 113995 122622 *	
1350	XMC06135 132994 133042 *	-	-	

 ... also for use in the Main Bus Bar Top (BBT) system

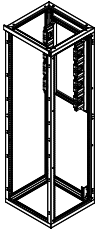
Note * Finish in special RAL colour

Bar Supports/Connection Systems

Main busbar supports	Page 329
Individual components for busbar supports	Page 331
Dropper bars	Page 332
Shutters	Page 336
Drill-free connection systems	Page 338
Terminals	Page 339

xEnergy Switchboards

Main Busbar Supports, rear-mounted



00159011_0

Features:

- 1600 – 4000 A
- TN-C, TN-C-S, TN-S, IT
- I_{cw} (1 s) up to 100 kA



wa_vt33413



VT00512



VT27209



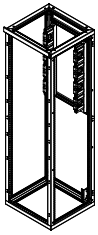
wa_vt08813

I_e	Cross-section of main busbars L1, L2, L3, full N	PE, PEN	Min. section depth	Type of busbar support		Type of earth-bar support for PEN front	Type of support	
				3 poles L1, L2, L3	4 poles L1, L2, L3, N		PE or PEN	N
A	mm ²	mm ²	mm	Article No. 1 set	Article No. 1 set	Article No. 1 set	Article No. 1 set	Article No. 1 set
800	1 x 40 x 10	1 x 40 x 10	600	XBSB163 283864	XBSB164 283865	XBSPF 168118	XBSP 283872	XBSN16 284747
1250	1 x 60 x 10	1 x 60 x 10	600	XBSB203 283866	XBSB204 283867	XBSPF 168118	XBSP 283872	XBSN20 284748
1600	2 x 40 x 10	1 x 40 x 10	600	XBSB163 283864	XBSB164 283865	XBSPF 168118	XBSP 283872	XBSN16 284747
2000	2 x 60 x 10	1 x 60 x 10	600	XBSB203 283866	XBSB204 283867	XBSPF 168118	XBSP 283872	XBSN20 284748
2500	2 x 80 x 10	1 x 80 x 10	600	XBSB253 285515	XBSB254 285516	XBSPF 168118	XBSP 283872	XBSN40 284750
3200	3 x 80 x 10	2 x 60 x 10	600	XBSB323 283868	XBSB324 283869	XBSPF 168118	XBSP 283872	XBSN40 284750
4000	3 x 80 x 10	2 x 80 x 10	800	XBSB403 283870	XBSB404 283871	XBSPF 168118	XBSP 283872	XBSN40 284750
5000	2x (3 x 80 x 10)	2 x 80 x 10	1000	XBSB403 283870	XBSB404 283871	-	XBSP 283872	XBSN40 284750

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

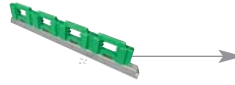
Main busbar supports, rear-mounted but in stainless steel finish



00159011_0

Features:

- 1600 – 4000 A
- TN-C, TN-C-S, TN-S, IT
- I_{cw} (1 s) up to 100 kA



wa_vt33413

I_e	Cross-section of main busbars L1, L2, L3, full N	PE, PEN	Min. section depth	Type of busbar supports	
				3 poles L1, L2, L3	4 poles L1, L2, L3, N
A	mm ²	mm ²	mm	Article No. 1 set	Article No. 1 set
800	1 x 40 x 10	1 x 40 x 10	600	XBSB163-ST5 110268	XBSB164-ST5 110269
1250	1 x 60 x 10	1 x 60 x 10	600	XBSB203-ST5 110270	XBSB204-ST5 110271
1600	2 x 40 x 10	1 x 40 x 10	600	XBSB163-ST5 110268	XBSB164-ST5 110269
2000	2 x 60 x 10	1 x 60 x 10	600	XBSB203-ST5 110270	XBSB204-ST5 110271
2500	2 x 80 x 10	1 x 80 x 10	600	XBSB253-ST5 110272	XBSB254-ST5 110273
3200	3 x 80 x 10	2 x 60 x 10	600	XBSB323 283868	XBSB324 283869
4000	3 x 80 x 10	2 x 80 x 10	800	XBSB403 283870	XBSB404 283871
5000	2x (3 x 80 x 10)	2 x 80 x 10	1000	XBSB403 283870	XBSB404 283871



wa_vt63613



wa_vt63513

End caps for copper 40/60/80x10	100/120x10
Article No. per unit	
XBI-80 121453	XBI-120 121454

... also for use in the Main Bus Bar Top (BBT) system

Note ¹⁾ N conductor separate with 1 x 40 x 10 mm
²⁾ N conductor separate with 3 x 80 x 10 mm

xEnergy Switchboards

Individual Components for Busbar Supports, Bar Holders

Bar holder right	Bar holder left	Bar holder Galvanised basis	Bar holder VA-steel basis	Bar holder Galvanised basis for N conductor	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XBSB-R 144593	XBSB-L 144594	XBSB-B 144596	XBSB-B-ST5 144595	XBSN-N 144597	

Individual Components for Busbar Supports, Spacer



VT25409

Plastic spacer
H = 20 mm

Article No.
per unit

XBSB-S
292313



wa_vt34413

Metal spacer
for Cu 60 mm

Article No.
per unit

XBSB-DI40
100648



wa_vt71813

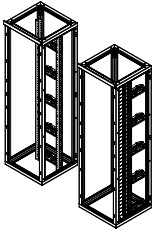
Metal spacer
for Cu 80 mm

Article No.
per unit

XBSB-DI20
292314

xEnergy Switchboards

Dropper Bars up to 1600 A for Outgoing Sections, Fitting Kits



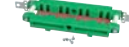
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Features:

- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT, TT
- I_{CW} (1 s) up to 50 kA¹⁾



wa_vt58813



wa_vt58913



wa_vt69913



wa_vt70013

Angle bracket for N and PEN in the cable connection area

I_e

Busbar cross-sections

A

L1, L2, L3, full N
mm²

PE, PEN
mm²

Type of busbar support

3 poles L1, L2, L3, or 4 poles L1, L2, L3, N

Article No. per unit

End support at the bottom

Article No. per unit

Type of support for conductor in connection area¹⁾
PE or PEN

N+PEN

Article No. per unit

Article No. per unit

Dropper bars on the side, center-to-center phase distance 60 mm

Module width	Busbar cross-sections	PE, PEN	Type of busbar support	End support at the bottom	Type of support for conductor in connection area ¹⁾	N+PEN
mm	L1, L2, L3, full N mm ²	PE, PEN mm ²	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
800	2 x 20 x 10	1 x 20 x 10	XDSF08 283888	XDSF08E 283889	XDSFP 283895	XDSFN 283894
1250	2 x 40 x 10	1 x 40 x 10	XDSF12 283890	XDSF12E 283891	XDSFP 283895	XDSFN 283894
1600	2 x 60 x 10	1 x 60 x 10	XDSF16 283892	XDSF16E 283893	XDSFP 283895	XDSFN 283894



wa_vt59013



VT00412

Module width

Type
Extension bracket for busbar support XDSF... for rear-mounted dropper bars

Type
Extension bracket for ... (strong design for lowest position)

mm

Article No. per unit

425

not required

-

600

XDB06
283885

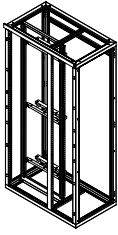
XADB06E
166745

Note

¹⁾ Also suitable for mounting cable ducts, auxiliary busbars etc.

xEnergy Switchboards

Dropper Bars up to 1600A for Outgoing Sections - PIFT



00123257_0

Features:

- 800 – 1600 A
- TN-C, TN-C-S, TN-S, IT



VT18809

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type Fitting kit, dropper bars 3 poles L1, L2, L3
A	mm ²	mm ²	Article No. 1 set
Dropper bars, vertical, for horizontally installed PIFT fuse strips, center-to-center phase distance 185 mm Set includes 3 supports, one of them with end plate			
800	1 x 40 x 10	1 x 20 x 10	XDSSV08 283902
1000	1 x 60 x 10	1 x 40 x 10	XDSSV10 283903
1200	1 x 80 x 10	1 x 40 x 10	XDSSV12 283904
1600	1 x 100 x 10	1 x 60 x 10	XDSSV16 283905
Dropper bars, horizontal, for vertically installed PIFT fuse strips, center-to-center phase distance 185 mm Set includes 2 supports			
800	1 x 40 x 10 (N = 1 x 40 x 10) ¹⁾	1 x 20 x 10 ¹⁾	XDSSH08 283896
1000	1 x 60 x 10 (N = 2 x 40 x 10) ¹⁾	1 x 40 x 10 ¹⁾	XDSSH10 283897
1200	1 x 80 x 10 (N = 2 x 40 x 10) ¹⁾	1 x 40 x 10 ¹⁾	XDSSH12 283898
1600	1 x 100 x 10 (N = 2 x 60 x 10) ¹⁾	1 x 60 x 10 ¹⁾	XDSSH16 283899

Note

For short-circuit strength see as of page xx

¹⁾ Where necessary, this is to be determined depending on the cross-section required for N or PE, PEN of the main busbar.

xEnergy Switchboards

Dropper Bars for SL-I-3200 A extending over several sections

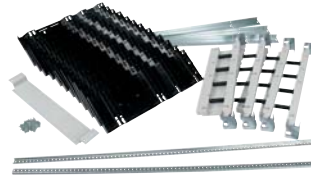


VT04510

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type
A	mm ²	mm ²	Article No. 1 set
1600	2 x 40 x 10	1 x 40 x 10	XDSF16-SL-I 143280
2000	2 x 60 x 10	1 x 60 x 10	XDSF20-SL-I 143281
2500	2 x 80 x 10	1 x 80 x 10	XDSF25-SL-I 143282
3200	2 x 100 x 10	1 x 100 x 10	XDSF32-SL-I 143283

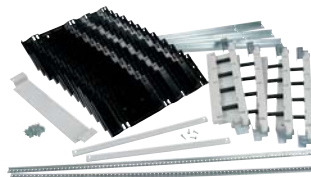
xEnergy Switchboards

Set of Dropper Bars for Plug-in Module Technology



VT02409

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type	set = droppers bar carrier shutter	- 4 pcs. - 12 pcs.
A	mm ²	mm ²	Fitting kit, dropper bars 3 poles L1, L2, L3	U-profile, H = 2023 mm sheet steel partition (bracket) plastic braket (partition) fastening material	- 2 pcs. - 3 pcs. - 1 pc. - 1 set
Form 2			Article No. 1 set		
800	1 x 40 x 10	1 x 20 x 10	XDSF08-PI-2 122017		
1000	1 x 60 x 10	1 x 40 x 10	XDSF10-PI-2 122018		
1200	1 x 80 x 10	1 x 40 x 10	XDSF12-PI-2 122019		
1600	1 x 100 x 10	1 x 60 x 10	XDSF16-PI-2 122020		



VT02309

I_e	Busbar cross-sections L1, L2, L3, full N	PE, PEN	Type	set = droppers bar carrier shutter	- 4 pcs. - 12 pcs.
A	mm ²	mm ²	Fitting kit, dropper bars 3 poles L1, L2, L3	U-profile, H = 2023 mm sheet steel partition (bracket) plastic braket (partition) front plate 25 mm fastening material	- 2 pcs. - 3 pcs. - 1 pc. - 2 pcs. - 1 set
Form 4			Article No. 1 set		
800	1 x 40 x 10 (N = 1 x 40 x 10) ¹⁾	1 x 20 x 10 ¹⁾	XDSF08-PI-4 122021		
1000	1 x 60 x 10 (N = 2 x 40 x 10) ¹⁾	1 x 40 x 10 ¹⁾	XDSF10-PI-4 122022		
1200	1 x 80 x 10 (N = 2 x 40 x 10) ¹⁾	1 x 40 x 10 ¹⁾	XDSF12-PI-4 122023		
1600	1 x 100 x 10 (N = 2 x 60 x 10) ¹⁾	1 x 60 x 10 ¹⁾	XDSF16-PI-4 122024		

Note

¹⁾ Where necessary, this is to be determined depending on the cross-section required for N or PE, PEN of the main busbar.

xEnergy Switchboards

Shutter for Plug-in Module Technology and SSL



wa_vt81213

wa_vt68613

VT17709

Type U-Profile for shutter mounting L = 1850 mm	Type Shutter for plug-in module technology and SSL	Type Second part of shutter (necessary for SSL sections)	
Article No. per unit unit = 2 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
XASM-PI 129004	XAS0606-PI 122029	XAS0606-S 135256	

Cable Connection Systems, Support Connection Systems up to 4000A



VT18209

3 poles	4 poles
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
Units = Bar holder - 6 pcs. End plates - 6 pcs. Mounting brackets - 6 pcs. (sheet metal, incl. screws)	Units = Bar holder - 8 pcs. End plates - 8 pcs. Mounting brackets - 8 pcs. (sheet metal, incl. screws)
XCSIY308 283882	XCSIY412 283884

xEnergy Switchboards

Arc Fault Partition for XP Sections

- Suitable for 3 and 4 pole XP sections
- For incoming and outgoing lines of the circuit breaker
- Consisting of separation panels, fixing brackets, cross-struts and screws

Section depth mm	Type of breaker IZMX16 Article No. per unit unit = 1 set	Type of breaker IZMX40 Article No. per unit unit = 1 set	Type of breaker IZM63 Article No. per unit unit = 1 set	
600	XPIX16CC06 171734	XPIX40CC06 171735	-	
800	XPIX16CC06 171734	XPIX40CC08 171736	XPI63CC10 171737	

Arc Fault Barrier - Main Busbar

- To be fixed at the end of the main busbar (between the side panel and the main busbar). This is how to prevent the arc fault from flashing over to the side panel.
- Consisting of separation panel and screws

Type	
Article No. per unit unit = 1 set	
XBI-P 171738	

Feedthrough of the Cu Current Bar



- As a functions partition from section to section, suitable for all current ratings/busbar sizes (thanks to press-cuts prepared for breaking them off), 3 and 4 poles
- Consisting of a 4-pole separation panel, separation panel for PEN, angle profile and screws

VT01011

Type	
Article No. per unit unit = 1 set	
XPBSS-5 151683	

xEnergy Switchboards

Drill-free connection system for XP sections



VT30009



wa_vt26913



wa_vt72813



wa_vt13113



wa_vt13013



wa_vt73413

Bar support external for central incoming supply up to 4000 A	Center bar support 4 poles KXS	Center bar support 3 poles KXS-3P-MID	Busbar 1250 A 2.4m long tin-plated double-T-profile	Busbar 1600 A 2.4m long tin-plated double-T-profile	Busbar 2500 A 2.4m long tin-plated triple-T-profile	
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
KSX-34P-EXT 138268	KSX-34P-MID 138269	KSX-3P-MID 138360	CU-BAR-500/T 107166	CU-BAR-720/T 107167	CU-BAR-1140/T 107168	

Connection terminals



wa_vt12313



Profile termin. termin. area 41x20-42mm for double-T-profile	Profile termin. termin. area 51x5-28mm for double-T-profile	Profile termin. termin. area 51x20-42mm for double-T-profile	Profile termin. termin. area 64x5-28mm for double-T-profile	Profile termin. termin. area 64x20-42mm for double-T-profile	Profile termin. termin. area 81x20-42mm for double-T-profile	Profile termin. termin. area 101x20-42mm for double-T-profile	Profile terminal termin. area 101x23-45mm for triple-T-profile
Article No. per unit unit = 3 pcs.	Article No. per unit unit = 3 pcs.	Article No. per unit unit = 3 pcs.	Article No. per unit unit = 3 pcs.	Article No. per unit unit = 3 pcs.	Article No. per unit unit = 3 pcs.	Article No. per unit unit = 3 pcs.	Article No. per unit unit = 3 pcs.
AKP800 107198	AKP750 138364	AKP1000 107199	AKP900 138365	AKP1200 138366	AKP1600 138367	AKP2000 138368	AKP3600 138369

xEnergy Switchboards

Universal Conductor Connection Terminal for Busbar 10mm



VT13506

16 mm ²	35 mm ²	70 mm ²	120 mm ²
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 25 pcs.	Article No. per unit unit = 25 pcs.
AKU16/10 107191	AKU35/10 107192	AKU70/10 107193	AKU120/10 107194

Connection terminals



VT13306

Brace terminal for bar 20x5 up to 30x10, 95-185 mm ²
Article No. per unit unit = 6 pcs.
AKS185 107195



VT13406

Brace terminal for bar 20x5 up to 30x10, 150-300 mm ²
Article No. per unit unit = 6 pcs.
AKS300 107196



VT01610

Connection terminal for round/ sector conductors for busbar 30x10, T and double-T-profile
Article No. per unit unit = 6 pcs.
AK300 138363

Screw-type connections, to be snapped on



wa_vt73513

Screw-type connections to be snapped on, for cable lug (M8) on 10 mm bar	Screw-type connections to be snapped on, or cable lug (M10) on 10 mm bar
Article No. per unit unit = 20 pcs.	Article No. per unit unit = 6 pcs.
AKU-M8/10 138362	AKU-M10/10 138361

xEnergy Switchboards

Suspension clamp for Cu feed-in systems in the XP section

Suspension clamp for 1 Cu bar	Suspension clamp for 2+3 Cu bars	
Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	
XTAAB3 173038	XTAAB2 173037	

Fitting Kits for Outgoing Sections

Fitting kits for outgoing sections, main busbar rear-mounted	Page 342
Fitting kits for SL fuse strips, main busbar rear-mounted	Page 343
Fitting kits for SSL switch fuse units, main busbar rear-mounted	Page 344
Accessories for xEnergy mounting frame	Page 345

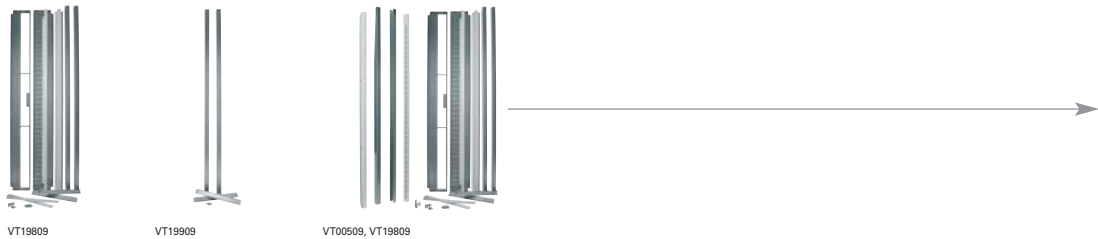
xEnergy Switchboards

Fitting Kits for Outgoing Sections, Main Busbar rear-mounted



Section depth mm	Fitting kits for LS outgoing sections Form 2 Article No. per unit	Fitting kits for LS outgoing sections Module width 400 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections Module width 600 mm, Installation-depth = 275 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections Module width 600 mm, Installation-depth = 475 mm Form 4 Article No. per unit	Fitting kits for LS outgoing sections Module width 400 mm Form 4 ohne Kabelanschluss Article No. per unit	Fitting kits for LS outgoing sections Module width 600 mm Form 4 ohne Kabelanschluss Article No. per unit	Fitting kits for LS outgoing sections Form 4 special-fitting kit Dubai Article No. per unit
600	XSMFIB0606 284253	XSMFDB0406 284246 122289 *	XSMFDB0606 284248 122291 *	-	XSMFDB0406-2 125991 125992 *	XSMFDB0606-2 110252 122594 *	XSMFIB06-1 109255 122586 *
800	XSMFIB0608 284254	XSMFDB0408 284247 122290 *	XSMFDB0608 284249 122292 *	XSMFDB0608-350 168937	XSMFDB0406-2 125991 125992 *	XSMFDB0606-2 110252 122594 *	XSMFIB06-1 109255 122586 *

Fitting kits for outgoing sections, main busbar rear-mounted (cont.)



Section depth mm	Fitting kits for LS outgoing section in plug-in module t. Module width 600 mm Form 4 Article No. per unit	Fitting kits for LS outgoing section in plug-in module t. Module width 600 mm Form 2 Article No. per unit	Fitting kits Box-Solution suitable for 400/600mm, Module width, Installation depth = 275 mm Form 4 Article No. per unit	Fitting kits Box-Solution suitable for 400/600mm, Module width, Installation depth = 475 mm Form 4 Article No. per unit	Fitting kits Box-Solution suitable for 400/600mm Module width, Installation depth = 275 mm without cable area Form 4 Article No. per unit	Fitting kits Box-Solution suitable for 400/600mm Module width, Installation depth = 475 mm without cable area Form 4 Article No. per unit
600	XSMFDB0606 284248 122291 *	XSMFIB0606 284253	XSMFDB0606-BS 125829 125971 *	-	XSMFDB0606-BS-2 168934	-
800	XSMFDB0608 284249 122292 *	XSMFIB0608 284254	XSMFDB0608-BS 125970 125972 *	XSMFDB0608-BS-350 168936	-	XSMFDB0608-2-350 168935

Note

* Finish in special RAL colour

xEnergy Switchboards

Fitting Kits for Fuse Strips, Main Busbar rear-mounted



VT20209



VT04710



VT04610



wa_vt54513

Section width mm	Fitting kits for SL fuse strips	Fitting kits for fuse strips (overlapping sections)	Blind frame kits for XSMLV-/-CH.. and XSMLV	Fitting kits for SL size 00 in upper third of section e.g. above IZM	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XSMLV-I 143418 143554 *	-	XSML00604 106732 122511 *	
600	XSMLV 144583 144584 *	XSMLV-I 143418 143554 *	XSMLV-I-CH06 143419 143555 *	XSML00606 106733 122512 *	
800	XSMLV 144583 144584 *	XSMLV-I 143418 143554 *	XSMLV-I-CH08 143420 143556 *	XSML00608 106734 122513 *	
1000	XSMLV 144583 144584 *	XSMLV-I 143418 143554 *	XSMLV-I-CH10 143421 143557 *	XSML00610 106735 122514 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Fitting Kits for SSL Switch Fuse Units, Main Busbar rear-mounted



VT24309



VT20009



VT20109



VT00409, VT00309

Section width mm	Fitting kits for SSL switch-fuse units Jean Müller vertical Article No. per unit	Section depth mm	Fitting kits for SSL switch fuse units Jean Müller horizontal Article No. per unit	Fitting kits for SSL switch fuse units Jean Müller horizontal behind the door Article No. per unit	Fitting kits for SSL switch-fuse units ABB horizontal Article No. per unit	
425	-	600	XSM SHD06 284274 122295 *	XSM SHI06 284276 122297 *	XSM SH-ABB 110278 122606 *	
600	XSM SV0608 284279 122299 *	800	XSM SHD08 284275 122296 *	XSM SHI08 284277 122298 *	-	
800	XSM SV0808 284281 122300 *					
1000	XSM SV1008 285510 122378 *					

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy Fitting Frame



wa_vt70913

Section width mm	Fitting frame for original xEnergy front panels H = 600 mm Article No. per unit	Fitting frame for original xEnergy front panels H = 2000 mm Article No. per unit	Fitting frame for EP H = 2000 mm Article No. per unit
425	XSMEX0604 106556 122461 *	XSMEX2004 106560 122465 *	XVTL-EP-4/20 143246
600	XSMEX0606 106557 122462 *	XSMEX2006 106561 122466 *	XVTL-EP-6/20 143247
800	XSMEX0608 106558 122463 *	XSMEX2008 106562 122467 *	-
850	-	-	XVTL-EP-85/20 143248
1000	XSMEX0610 106559 122464 *	XSMEX2010 106563 122468 *	-
1100	-	-	XVTL-EP-11/20 143244
1350	-	-	XVTL-EP-135/20 143245

Note

* Finish in special RAL colour

Front Panels / Empty-space Covers

xEnergy EBS front panels	Page 347
Doors for box solution	Page 351
Snap-on cover	Page 351
EBS front panels	Page 352
Covers for circuit breaker cut-out	Page 352
Empty-space covers	Page 353

xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy EBS Front Panels for FAZ



Width mm	UK H = 50 mm for PLH switch Article No. per unit	H = 150 mm Article No. per unit	H = 200 mm Article No. per unit	H = 300 mm Article No. per unit	H = 400 mm Article No. per unit
425	-	XMMC0604C 283979 122152 *	XMMC0804C 283983 122154 *	XMMC1204C 283987 122156 *	XMMC1604C 283991 122158 *
600	XMPL10606C-UK 110258 122595 *	XMMC0606C 283981 122153 *	XMMC0806C 283985 122155 *	XMMC1206C 283989 122157 *	XMMC1606C 283993 122159 *
800	-	XMMC0608C 106718 122507 *	XMMC0808C 106730 122509 *	-	-
1000	-	XMMC0610C 106719 122508 *	XMMC0810C 106731 122510 *	-	-

Accessories for Outgoing Sections: xEnergy EBS Front Panels - Empty



Width mm	H = 25mm Article No. per unit	H = 50mm Article No. per unit	H = 100mm Article No. per unit	H = 150mm Article No. per unit	H = 200mm Article No. per unit	H = 250mm Article No. per unit	H = 300mm Article No. per unit	H = 400mm Article No. per unit	H = 600mm Article No. per unit	H = 800mm Article No. per unit	ventilated H = 100mm Article No. per unit
425	-	XME0204C 283922 122121 *	XME0404C 283926 122123 *	XME0604C 283934 122129 *	XME0804C 283939 122134 *	XME1004C 144587 144589 *	XME1204C 283946 122139 *	XME1604C 283948 122141 *	XME2404C 294923 122412 *	-	XME0404CV 283928 122125 *
600	XME0106C 158619 158620 *	XME0206C 283924 122122 *	XME0406C 283930 122126 *	XME0606C 283936 122131 *	XME0806C 283942 122136 *	XME1006C 144588 144590 *	XME1206C 283947 122140 *	XME1606C 283950 122142 *	XME2406C 294924 122413 *	XME3206C 294926 122415 *	XME0406CV 283932 122128 *

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy EBS Front Panels for PKZ 0/4



wa_vt67813

wa_vt67913

Width mm	Horizontal 3 poles H = 50 mm PKZ0 Article No. per unit	Horizontal 3 poles H = 100 mm PKZ4 Article No. per unit
425	XMP030204C 284087 122212 *	XMP430404C 284095 122214 *
600	XMP030206C 284089 122213 *	XMP430406C 284097 122215 *

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM1



wa_vt66913

wa_vt67413

wa_vt67513

wa_vt67413

wa_vt68913

Width mm	UK 1xNZM1 horiz. 4 poles H = 150 mm fixed with cut-out for measuring device 90/90 Article No. per unit	UK 1xNZM1 horiz. 4 pole H = 150 mm fixed Article No. per unit	1xNZM1 horizontal 3 poles H = 100 mm fixed Article No. per unit	1xNZM1 horizontal 4 poles H = 150 mm fixed Article No. per unit	1xNZM1 horizontal 4 poles H = 150 mm plug-in module t. Article No. per unit	2xNZM1 vertical 3 poles H = 300 mm fixed Article No. per unit	3xNZM1 vertical 3 poles H = 300 mm fixed Article No. per unit	2xNZM1 vertical 4 poles H = 300 mm fixed Article No. per unit	3xNZM1 vertical 4 poles H = 300 mm fixed Article No. per unit
425	-	-	XMN130404C 283995 122160 *	XMN140604C 284003 122164 *	XMN130604C 121799 122637 *	XMN131204CV 283999 122162 *	-	XMN141204CV 284007 122166 *	-
600	XMN140606C-1-UK 110262 122599 *	XMN140606C-UK 110259 122596 *	XMN130406C 283997 122161 *	XMN140606C 284005 122165 *	XMN130606C 121797 122636 *	-	XMN131206CV 284001 122163 *	-	XMN141206CV 284009 122167 *

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM2



wa_vt54613

Width mm	UK 1xNZM2 horizontal 4 poles H = 200 mm with cut-out for measuring dev.t fixed Article No. per unit	UK 1xNZM2 horizontal 4 poles H = 200 mm fixed Article No. per unit	1xNZM2 horizontal 3 poles H = 150 mm fixed Article No. per unit	1xNZM2 horizontal 3 poles H = 150 mm plug-in mod. technology Article No. per unit	1xNZM2 horizontal 3 poles H = 150 mm with motor lift (placed 15mm above front panel) Article No. per unit	1xNZM2 horizontal 4 poles H = 200 mm fixed Article No. per unit	1xNZM2 horizontal 4 poles H = 200 mm with motor lift (placed 15mm above front panel) Article No. per unit	1xNZM2 horizontal 4 poles H = 200 mm plug-in mod. technology Article No. per unit
425	-	-	XMN230604C 284011 122168 *	-	-	XMN240804C 284024 122175 *	-	-
600	XMN240606C-1-UK 110263 122600 *	XMN240606C-UK 110260 122597 *	XMN230606C 284013 122169 *	XMN230606C 284013 122169 *	XMN230606CR 292907 122406 *	XMN240806C 284026 122176 *	XMN240806CR 125993 125994 *	XMN240806C 284026 122176 *

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM2 (cont.)



wa_vt70713

Width mm	1xNZM2 horizontal 4 poles H = 200 mm cover for RCD module fixed Article No. per unit	2xNZM2 vertical 3 poles H = 400 mm fixed Article No. per unit	3xNZM2 vertical 3 poles H = 400 mm fixed Article No. per unit	2xNZM2 vertical 3 poles H = 600 mm plug-in mod. technology Article No. per unit	3xNZM2 vertical 3 poles H = 600 mm plug-in mod. technology Article No. per unit	2xNZM2 vertical 4 poles H = 400 mm fixed Article No. per unit	2xNZM2 vertical 4 poles H = 600 mm plug-in module technology Article No. per unit
425	-	XMN231604CV 284015 122170 *	-	XMN232404CV 284019 122172 *	-	XMN241604CV 284028 122177 *	XMN242404CV 284032 122179 *
600	XMN240806CF 284659 122356 *	-	XMN231606CV 284017 122171 *	-	XMN232406CV 284021 122173 *	XMN241606CV 284030 122178 *	XMN242406CV 284034 122180 *

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM3



wa_vt67113

Width mm	UK 1xNZM3 horizontal 4 poles H = 250 mm with cut-out for measuring dev. fixed Article No. per unit	UK 1xNZM3 horizontal 4 poles H = 250 mm fixed Article No. per unit	1xNZM3 horizontal 3 poles H = 200 mm fixed Article No. per unit	1xNZM3 horizontal 3 poles H = 250 mm fixed Article No. per unit	1xNZM3 horizontal 4 poles H = 250 mm fixed Article No. per unit	1xNZM3 horizontal 4 poles H = 300 mm fixed Article No. per unit	1xNZM3 horizontal 3 poles H = 600 mm fixed Article No. per unit	2xNZM3 vertical 3 poles H = 600 mm fixed Article No. per unit
425	-	-	-	-	-	-	XMN332404CV2 284044 122186 *	-
600	XMN340606C-1-UK 110264 122601 *	XMN340606C-UK 110261 122598 *	XMN330806C 284036 122181 *	XMN331006C 284039 122183 *	XMN341006C 284052 122191 *	XMN341206C 284055 122193 *	-	XMN332406CV2 284049 122189 *

Accessories for Outgoing Sections: xEnergy EBS Front Panels for NZM3 (cont.)



wa_vt73013

Width mm	1xNZM3 vertical 3 poles H = 600 mm withdrawable, suitable only for sections of 800 mm depth Article No. per unit	1xNZM3 vertical 4 poles H = 600 mm fixed Article No. per unit	1xNZM3 vertical 4 poles H = 600 mm withdrawable, suitable only for sections of 800 mm depth Article No. per unit	1xNZM3, horizontal 3 poles, H = 200 mm with motor lift, lift sticks 55 mm out of front panel, no turning of the front panel possible, fixed Article No. per unit	1xNZM3, horizontal 4 poles, H = 250 mm with motor lift, lift sticks 55 mm out of front panel, no turning of the front panel possible, fixed Article No. per unit	1xNZM3 horizontal H = 250 mm Plug-in technology Article No. per unit	1xNZM3 horizontal H = 300 mm Plug-in technology Article No. per unit
425	XMN332404CV1 284042 122184 *	XMN342404CV2 284060 122196 *	XMN342404CV1 284058 122194 *	-	-	-	-
600	XMN332406CV1 284047 122187 *	XMN342406CV2 284065 122200 *	XMN342406CV1 284063 122198 *	XMN330806CR 284037 122182 *	XMN341006CR 284053 122192 *	XMN331006CP 172200 172324 *	XMN341206CP 172202 172325 *

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

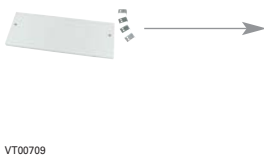
xEnergy Switchboards

Accessories for Outgoing Sections: Doors for Box Solution (Doors to Switchgear Area)



Width mm	H = 200 mm	H = 300 mm	H = 350 mm	H = 400 mm	H = 500 mm	H = 600 mm	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	XSDFMC0204 109240 122573 *	XSDFMC0304 109241 122574 *	XSDFMC0304-1 109242 122575 *	XSDFMC0404 109243 122576 *	XSDFMC0504 109244 122577 *	XSDFMC0604 109245 122578 *	
600	XSDFMC0206 109246 122579 *	XSDFMC0306 109247 122580 *	XSDFMC0306-1 109248 122581 *	XSDFMC0406 109249 122582 *	XSDFMC0506 109250 122583 *	XSDFMC0606 109251 122584 *	

Accessories for Outgoing Sections: Snap-on Cover without Cut-out for Box Solution



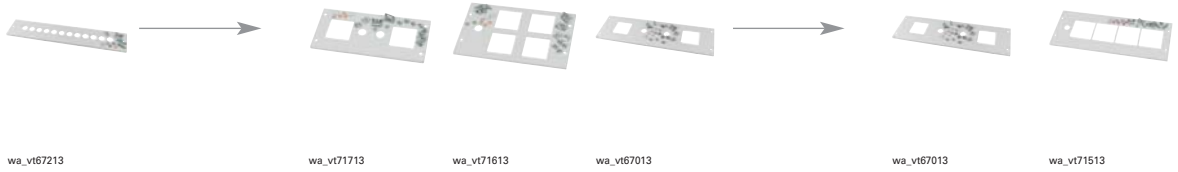
Width mm	H = 150 mm	H = 250 mm	
	Article No. per unit	Article No. per unit	
425	XMC0604-BS 125983 125987 *	XMC1004-BS 125984 125988 *	
600	XMC0606-BS 125985 125989 *	XMC1006-BS 125986 125990 *	

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: EBS Front Panels with Punch Holes, EBS Front Panels with Cut-out for Measuring Devices



Width mm	9xRMQ D = 22.5 mm H = 100 mm	12xRMQ D = 22.5 mm H = 100 mm	2xMeasuring dev. 72/72 2xchange-over switch H = 150 mm	4xMeasuring dev. 72/72 1xchange-over switch H = 200 mm	2xMeasuring dev. 72/72 2xchange-over switch H = 150 mm	4xMeasuring dev. 96/96 2xchange-over switch H = 150 mm	2xMeasuring dev. 96/96 2xchange-over switch H = 200 mm	4xMeasuring dev. 96/96 1xchange-over switch H = 200 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XME0404CI 283927 122124 *	-	XME0604CM 283935 122130 *	XME0804CM 283940 122135 *	-	-	-	-
600	-	XME0406CI 283931 122127 *	-	-	XME0606CM2 283937 122132 *	XME0606CM4 283938 122133 *	XME0806CM2 283943 122137 *	XME0806CM4 283944 122138 *

Accessories for Outgoing Sections: Covers for circuit breaker cut-out



wa_vt69813

Poles	NZM1- Closing plate for closing the front cover (spare space)	NZM2- Closing plate for closing the front cover (spare space)	NZM3- Closing plate for closing the front cover (spare space)	
	Article No. per unit	Article No. per unit	Article No. per unit	
3 poles	XAS1-4 284740 122363 *	XAS2-3 284741 122364 *	XAS3-3 284743 122366 *	
4 poles	XAS1-4 284740 122363 *	XAS2-4 284742 122365 *	XAS3-4 284744 122367 *	

... also for use in the Main Bus Bar Top (BBT) system

Note * Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: Empty-space Covers



VT08406



VT00709



VT08506



VT08606

For SSL H = 25 mm	For SSL H = 50 mm	For SSL H = 75 mm	For SSL H = 75 mm ventilated	For SSL H = 150 mm	Set for conventional arc fault protection for PIFT	Only Eaton for SL B = 50 mm	Only Eaton for SL B = 100 mm	
Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
XME0601CS 289955	XME0602CS 292500	XME0603CS 292501	XME0603CSV 129011	XME0606CS 292502	XSMS06 108781	XME0602CL 289904	XME0604CL 289905	
122393 *	122399 *	122400 *	129014 *	122401 *	122562 *			

Accessories for Outgoing Sections: Empty-space Covers for PIFT



VT28410



VT34210

Height mm	Empty-space cover for closing the gap between switchgear area and cable connection area Article No. per unit unit = 1 pc.
25	XPFMC25 143197
50	XPFMC50 143198
75	XPFMC75 143199
100	XPFMC100 143194
150	XPFMC150 143195
200	XPFMC200 143196

Cover profile in addition to SL empty-space cover (to close the gap between dropper bar and blind cover) Article No. per unit unit = 1 m
XPLSTB-1000 150540

Note

* Finish in special RAL colour

Outgoing Sections

Mounting plates / Drawers / Plug-in Modules /
Partitions

Mounting plates

Page 355

Plug-in module technology

Page 361

Separation panels

Page 364

Screws

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Accessories for Outgoing Sections: Mounting Plates for FAZ



Width mm	UK	min. H = 150 mm 1 row	min. H = 200 mm 1 row	min. H = 300 mm 2 rows	min. H = 400 mm 2 rows	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMMC0604M 283980	XMMC0804M 283984	XMMC1204M 283988	XMMC1604M 283992	
600	XMPL10606M-UK 110254	XMMC0606M 283982	XMMC0806M 283986	XMMC1206M 283990	XMMC1606M 283994	
800	-	XMMC0608M 106736	XMMC0808M 106737	-	-	
1000	-	XMMC0610M 106738	XMMC0810M 106739	-	-	

Accessories for Outgoing Sections: Mounting Plates - Empty



Width mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XME0204M 283923	XME0404M 283929	XME0604M 284727	XME0804M 283941	XME1004M 144585	XME1204M 285684	XME1404M-1 110333	XME1604M 283949
600	XME0206M 283925	XME0406M 283933	XME0606M 284728	XME0806M 283945	XME1006M 144586	XME1206M 285686	XME1406M-1 110339	XME1606M 283951

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for PKZ



wa_vt68313

wa_vt68113

Width mm	Horizontal 3 poles H = 50 mm	Horizontal 3 poles H = 100 mm	
	Article No. per unit	Article No. per unit	
425	XMP030204M 284088	XMP430404M 284096	
600	XMP030206M 284090	XMP430406M 284098	

Accessories for Outgoing Sections: Mounting Plates for NZM1



wa_vt68013

wa_vt68113

Width mm	UK 1xNZM1 horiz. 4 poles H = 150 mm fixed	1xNZM1 horizontal 3 poles H = 100 mm fixed	1xNZM1 horizontal 4 poles H = 150 mm fixed	1xNZM1 horizontal 3 poles H = 150 mm plug-in mod. technology	2xNZM1 vertical 3 poles H = 300 mm fixed	3xNZM1 vertical 3 poles H = 300 mm fixed	2xNZM1 vertical 4 poles H = 300 mm fixed	3xNZM1 vertical 4 poles H = 300 mm fixed	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMN130404M 283996	XMN140604M 284004	XMN130604MP 121798	XMN131204MV 284000	-	XMN141204MV 284008	-	
600	XMN140606M-UK 110255	XMN130406M 283998	XMN140606M 284006	XMN130606MP 121796	-	XMN131206MV 284002	-	XMN141206MV 284010	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

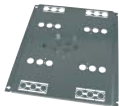
Accessories for Outgoing Sections: Mounting Plates for NZM2



wa_vt54913

Width mm	UK 1xNZM2 horizontal 4 poles H = 200 mm fixed	1xNZM2 horizontal 3 poles H = 150 mm fixed	1xNZM2 horizontal 3 poles H = 150 mm plug-in module technology	1xNZM2 horizontal 3 poles H = 150 mm with motor lift (sticking 15mm out of front panel)	1xNZM2 horizontal 4 poles H = 200 mm fixed	1xNZM2 horizontal 4 poles H = 200 mm plug-in module technology	1xNZM2 horizontal 4 poles H = 200 mm cover for RCD module fixed	2xNZM2 vertical 3 poles H = 400 mm fixed
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	XMN230604M 284012	-	-	XMN240804M 284025	-	-	XMN231604MV 284016
600	XMN240606M-UK 110256	XMN230606M 284014	XMN230606MP 284724	XMN230606M 284014	XMN240806M 284027	XMN240806MP 284726	XMN240806MF 134485	-

Accessories for Outgoing Sections: Mounting Plates for NZM2 (several devices on one plate)



wa_vt73113

Width mm	3xNZM2 vertical 3 poles H = 400 mm fixed	2xNZM2 vertical 3 poles H = 600 mm plug-in module technology	3xNZM2 vertical 3 poles H = 600 mm plug-in module technology	2xNZM2 vertical 4 poles H = 400 mm fixed	2xNZM2 vertical 4 poles H = 600 mm plug-in module technology	
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	
425	-	XMN232404MV 284020	-	XMN241604MV 284029	XMN242404MV 284033	
600	XMN231606MV 284018	-	XMN232406MV 284022	XMN241606MV 284031	XMN242406MV 284035	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for NZM3



wa_v172913

Width mm	UK 1xNZM3 horizontal 4 poles H = 250 mm fixed	1xNZM3 horizontal 3 poles H = 200 mm fixed	1xNZM3 horizontal 3 poles H = 250 mm fixed	1xNZM3 horizontal 4 poles H = 250 mm fixed	1xNZM3 horizontal 4 poles H = 300 mm fixed	1xNZM3 vertical 3 poles H = 600 mm fixed	2xNZM3 vertical 3 poles H = 600 mm fixed	1xNZM3 vertical 3 poles H = 600 mm withdrawable
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	-	-	-	-	-	XMN332404MV 284046	-	XMN332404MV 284046
600	XMN340606M-UK 110257	XMN330806M 284038	XMN331006M 284041	XMN341006M 284054	XMN341206M 284057	-	XMN332406MV 284051	XMN332406MV 284051

Accessories for Outgoing Sections: Mounting Plates for NZM3 (cont.)



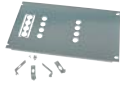
wa_v172913

Width mm	1xNZM3 vertical 4 poles H = 600 mm fixed	1xNZM3 vertical 4 poles H = 600 mm withdrawable	1xNZM3, horizontal 3 poles, H = 200 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed	1xNZM3, horizontal 4 poles, H = 250 mm with motor lift, motor lift sticks 55 mm through front panel, no turning possible, fixed	1xNZM3 horizontal 3 poles H = 250 mm plug-in technology	1xNZM3 horizontal 4 poles H = 300 mm plug-in technology
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XMN342404MV 284062	XMN342404MV 284062	-	-	-	-
600	XMN342406MV 284067	XMN342406MV 284067	XMN330806M 284038	XMN341006M 284054	XMN331006MP 172199	XMN341206MP 172201

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Plates for Box Solution



VT00909

Width mm	NZM1 3+4 poles H = 200 mm horizontal	NZM2 3 poles H = 200 mm horizontal	NZM2 4 poles H = 300 mm fixed/withdraw. horizontal	NZM3 H = 600 mm 3+4 poles fixed 3-poles fixed, withdrawable and plug-in vertical	NZM3 3+4 poles H = 600 mm fixed, withdrawable and plug-in vertical	NZM3 3+4 poles H = 300 mm fixed and plug-in horizontal	NZM3 3+4 poles H = 500 mm withdrawable horizontal
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
425	XMN130804M-BS 125973	XMN230804M-BS 125974	XMN241204M-BS 125975	XMN342404M-BS 125976	-	-	-
600	XMN130806M-BS 125977	XMN230806M-BS 125978	XMN241206M-BS 125979	-	XMN342406M-BS 125982	XMN341206M-F-BS 125980	XMN342006M-W-BS 125981

Accessories for Outgoing Sections: Mounting Plates for GS (disconnecter)



wa_vt68813



wa_vt70613



wa_vt70413



wa_vt70313

Width mm	For 3 units of GS(TA) 00 or 1 GSTA3 H = 300 mm	For 2 units of GS(TA) 1 H = 400 mm	For 1 unit of GS(TA) 2 H = 400 mm	For GS(TA) 3 H = 600 mm
	Article No. per unit	Article No. per unit	Article No. per unit	Article No. per unit
600	XMG031206MV 283952	XMG131606MV 283953	XMG231606MV 283954	XMG332406M 114834

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories for Outgoing Sections: Mounting Brackets for Underground Mounting Plates



VT18409

Underground bracket	
Article No. per unit unit = 2 pcs. left bracket, 2 pcs. right bracket	
XMBD 283921	

Accessories for Outgoing Sections: Plug-in Module Technology, Form 2



wa_vt64113

wa_vt64213

wa_vt64313

wa_vt72113

wa_vt72213

Poles	Drawer-unit module NZM1 incl. connection cable and mounting bracket Article No. per unit unit = 1 set	Drawer-unit module NZM2 incl. rear connection cable and mounting bracket Article No. per unit unit = 1 set	Drawer-unit module NZM3 incl. rear connection cable and mounting bracket Article No. per unit unit = 1 set	Drawer-unit module PKZ0, PKZ2, PKZ4 incl. connection cable and mounting bracket Article No. per unit unit = 1 set	Empty drawer-unit module with DIN-rail incl. connection cable and mounting bracket Article No. per unit unit = 1 set	Empty drawer-unit module with DIN-rail incl. connection cable and mounting bracket Article No. per unit unit = 1 set
3 poles	XMN130406-PI-2 122030	XMN230606-PI-2 122031	XMN330806-PI-2 122032	XMP430406-PI-2 122037	-	-
4 poles	XMN140606-PI-2 122033	XMN240806-PI-2 122034	XMN341006-PI-2 122035	-	XMMC0606-PI-2 122038	XMMC1006-PI-2 122036

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories for Outgoing Sections: Plug-in Module Technology, Form 4



wa_vt63713

wa_vt63813

wa_vt63913

wa_vt72413

wa_vt64013

Poles

	Drawer-unit module NZM1 incl. connection cable and mounting bracket and front plate 3 pol.: H = 100mm 4 pol.: H = 150mm Article No. per unit unit = 1 set	Drawer-unit module NZM2 incl. rear connection cable and mounting bracket and front plate 3 pol.: H = 150mm 4 pol.: H = 200mm Article No. per unit unit = 1 set	Drawer-unit module NZM3 incl. rear connection cable and mounting bracket and front plate 3 pol.: H = 200mm 4 pol.: H = 250mm Article No. per unit unit = 1 set	Drawer-unit module PKZO PKZ2, PKZ4 incl. connection cable and mounting bracket and front plate H = 100 mm Article No. per unit unit = 1 set	Empty drawer-unit module with DIN-rail incl. connection cable and mounting bracket and front plate 4 poles H = 150 mm Article No. per unit unit = 1 set	Empty-drawer unit module with DIN-rail incl. connection cable and mounting bracket and front plate 4 poles H = 250 mm Article No. per unit unit = 1 set
3 poles	XMN130406-PI-4 122039 122639 *	XMN230606-PI-4 122040 122640 *	XMN330806-PI-4 122041 122641 *	XMP430406-PI-4 122046 122646 *	-	-
4 poles	XMN140606-PI-4 122042 122642 *	XMN240806-PI-4 122043 122643 *	XMN341006-PI-4 122044 122644 *	-	XMMC0606-PI-4 122047 122647 *	XMMC1006-PI-4 122045 122645 *

Accessories for Outgoing Sections: Accessories for Plug-in Module Technology



wa_vt72313

VT34010

VT33910

VT34110

	Mounting element for plug-in module techn.	Fixing adapter for signalling devices H = 100 mm incl. fastening material	Fixing adapter for signalling devices H = 150 mm incl. fastening material	Fixing adapter for signalling devices H = 200 mm incl. fastening material	Fixing adapter for signalling devices H = 250 mm incl. fastening material
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
	XAGAF-PI 126018	XMNA04-PI 126880	XMNA06-PI 126881	XMNA08-PI 126882	XMNA10-PI 126883

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Sections: Accessories for Plug-in Module Technology



VT33810

Poles	Set of spacer brackets for NZM3 plug-in Form 2 (for raising the switchgear position so as to allow the installation of a Pfiffner converter) Article No. per unit unit = 1 set	
3 pole	XMN33-SBS-PI 141902	
4 pole	XMN34-SBS-PI 141903	

Accessories for Outgoing Sections: Partitions for Internal Separation



VT25109



wa_vt58013



wa_vt57913



wa_vt71913

Form 2 Partition connection area/ dropper bar area	Form 2/4 Partition connection area/ dropper bar area	Form 4 Partition switchgear area/ switchgear area	For Dubai only Form 4 Partition switchgear a./ switchgear a. without ventil.	Form 4 Closing strip switchgear a./ connection area L = 650 mm	Form 2/4 Connection area/ dropper bar area in the widths of 200/400/600	
Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
XPFC2006-PI-2 126019	XPFC2006 284132	XPFMM04 284147	XPFMM04-1 109252	XPFC 284146	XPFCB02 284745	
XPFC2008-PI-2 126020	XPFC2008 284133	XPFMM06 284148	XPFMM06-1 109253	-	XPFCB04 284119	
-	-	-	-	-	XPFCB06 284746	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

Section width mm	Switchgear area width mm	Cable connect. area width mm	NZM outgoing sections Form 2/4 Article No. per unit unit = 1 set	Switch fuse unit section without door to the switchgear area Article No. per unit unit = 1 set	Removable design sections in 2/4 and SSL switch fuse unit sections with door to switchgear area Article No. per unit unit = 1 set
600	425	172	XPFB172 158606		
800	425	372	XPFB372 158607		
	600	197	XPFB197 158608		
1000	600	397	XPFB397 158609		
1200	600	597	XPFB597 158610		
1000	600	385		XPSB385 158611	
1200	600	585		XPSB585 158613	
1000	600	320			XPSB320 158612
1200	600	520			XPSB520 158614

xEnergy Switchboards

Accessories for Outgoing Sections: Separation Panels



VT21209



wa_vt63313

Width mm	For SL + SSL section section depth 600 mm	For SL + SSL section section depth 800 mm	For SL section and SSL section vertical instal. section depth 600 mm with EVEN type of connection	For SL section and SSL section vertical instal. section depth 800 mm with EVEN type of connection	
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
600	XPL-06 284161	XPL0608 126006	XPLB0606 116456	XPLB0608 124415	
800	XPL-08 284162	XPL0808 126007	XPLB0806 116457	XPLB0808 124416	
1000	XPL-10 285500	XPL1008 126008	XPLB1006 116458	XPLB1008 124417	

Note

* Finish in special RAL colour

Screws

xEnergy Switchboards

Screws and Accessories



VT11709

Thread-cutting screws
M 4
Article No.
per unit
unit = 100 pcs.

XNNGFS-M4X16
141863



VT12609

Thread-cutting flat-head screws
M 6x22
Article No.
per unit
unit = 50 pcs.

XNSNK-M6X22-8
126935



wa_vt65813

Hammer-head screws
M 10x30
Article No.
per unit
unit = 50 pcs.

XNNHKS-M10X30
141867

Hammer-head screws
M 10x50
Article No.
per unit
unit = 50 pcs.

XNNHKS-M10X50
141868



VT11509

Saucer head screws (door fixing screws) M 8
Article No.
per unit
unit = 30 pcs.

XNFRS-M8X70
168952

Saucer head screws (door fixing screws) M 10
Article No.
per unit
unit = 30 pcs.

XNFRS-M10X50-8
168948

XNFRS-M10X60-8
168955

XNFRS-M10X70-8
168953

XNFRS-M10X80-8
168950

Saucer head screws (door fixing screws) M 12
Article No.
per unit
unit = 30 pcs.

XNFRS-M12X40-8
168934

XNFRS-M12X50-8
141861

XNFRS-M12X60-8
168940

XNFRS-M12X70-8
141862

XNFRS-M12X80-8
168941



wa_vt65913

Allen screws M8
Article No.
per unit
unit = 1 pc.

XNNISKS-M8X60-8
144601

XNNISKS-M8X80-8
144600

XNNISKS-M8X100-8
144599

XNNISKS-M8X120-8
144598



wa_vt73313

Stud-type screws M 10
Article No.
per unit
unit = 1 pc.

XTANS-DIN939-M10X80
173039

XTANS-DIN939-M10X100
173040

XNSTS-M10X140-S
141841

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Screws and Accessories



VT11609

Hexagon head cap screws M 8 Article No. per unit unit = 50 pcs.	Hexagon head cap screws M 10 Article No. per unit unit = 50 pcs.	Hexagon head cap screws M 10 Article No. per unit unit = 30 pcs.	Hexagon head cap screws M 12 Article No. per unit unit = 30 pcs.	
XNNSKS-M8X16 141894	XNNSKS-M10X30-8 168951	XNNSKS-M10X100-8 141881	XNNSKS-M12X40-8 168958	
XNNSKS-M8X30 168960	XNNSKS-M10X35-8 168954	XNNSKS-M10X110-8 168943	XNNSKS-M12X50-8 168957	
XNNSKS-M8X35 168959	XNNSKS-M10X40-8 168945	XNNSKS-M10X120-8 141882	XNNSKS-M12X60-8 168947	
XNNSKS-M8X45 141895	XNNSKS-M10X45-8 148808	XNNSKS-M10X140-8 141883	XNNSKS-M12X70-8 141891	
XNNSKS-M8X50 168961	XNNSKS-M10X50-8 168946	XNNSKS-M10X160-8 141884	XNNSKS-M12X80-8 141892	
	XNNSKS-M10X55-8 168944	XNNSKS-M10X180-8 141885	XNNSKS-M12X90-8 141893	
	XNNSKS-M10X60-8 141887	XNNSKS-M10X190-8 141886		
	XNNSKS-M10X65-8 168949			
	XNNSKS-M10X70-8 141888			
	XNNSKS-M10X80-8 141889			
	XNNSKS-M10X90-8 168942			

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Screws and Accessories (cont.)



VT28710

Connection screws
Hammer-head screws
M 12 (suitable for SL-I)
Article No.
per unit
unit = 30 pcs.

XNNHKS-M12X66
144071

XNNHKS-M12X80
144072

XNNHKS-M12X100
144073

XNNHKS-M12X120
144074



VT11909

Hexagon
nuts
M 5
Article No.
per unit
unit = 50 pcs.

Hexagon
nuts
M 6
Article No.
per unit
unit = 50 pcs.

Hexagon
nuts
M 8
Article No.
per unit
unit = 50 pcs.

Hexagon
nuts
M 10
Article No.
per unit
unit = 50 pcs.

Hexagon
nuts
M 12
Article No.
per unit
unit = 50 pcs.

Washers
M 6
Article No.
per unit
unit = 50 pcs.

Washers
M 8
Article No.
per unit
unit = 50 pcs.

Washers
M 10
Article No.
per unit
unit = 50 pcs.

XNNSKM-M5
141878

XNNSKM-M6
141879

XNNSKM-M8
141880

XNNSKM-M10
141876

XNNSKM-M12
141877

XNNUS-6
141900

XNNUS-8
141901

XNNUS-10
141899

VT12209



VT12409

Contact
washers
(Tooth lock)
M 6
Article No.
per unit
unit = 50 pcs.

VT12309

Spring lock
washers
M 6
Article No.
per unit
unit = 50 pcs.

V112109

Spring lock
washers
M 8
Article No.
per unit
unit = 50 pcs.

Curved
washers
M 8
Article No.
per unit
unit = 50 pcs.

Curved
washers
M 10
Article No.
per unit
unit = 50 pcs.

Curved
washers
M 12
Article No.
per unit
unit = 50 pcs.

VT12509

Insulating
caps
M10
Article No.
per unit
unit = 50 pcs.

Insulating
caps
M 12
Article No.
per unit
unit = 50 pcs.

VT12009

Insert
nuts
M 10
Article No.
per unit
unit = 30 pcs.

XNNKS-M6
141871

XNNFR-M6
141859

XNNFR-M8
141860

XNNS-8-FST
141898

XNNS-10-FST
141896

XNNS-12-FST
141897

XNNIK-M10
141869

XNNIK-M12
141870

XNNEM-M12
141858

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

Screws and Accessories (cont.)



VT28810

<p>Retention washer (washer and fixation for the hammer-head screw used for SL-I M 12 Article No. per unit unit = 30 pcs.</p>	<p>Grommet (for Bus Bar Top) M10 Article No. per unit unit = 50 pcs.</p>	
<p>XNHS-M12 144075</p>	<p>XTANW-DIN6340-M10 173095</p>	

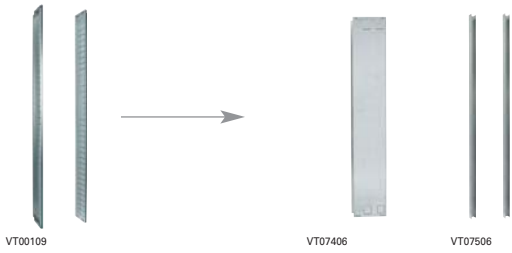
... also for use in the Main Bus Bar Top (BBT) system

General Accessories

Mounting plates, mounting spars	Page 371
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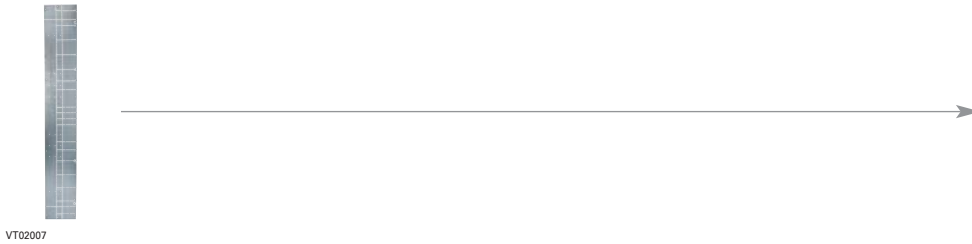
xEnergy Switchboards

General Accessories: Mounting Plates, Mounting Spars



Universal mounting plate	Universal mounting plate with cut out for mechanical lock. Necessary for IZM63 4pole.	Universal mounting plate, in shallow version	Universal mounting spar				
Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pair				
XSMIB20 284257	XSMIB20-Z 150399	XSMIB20-1 107292	XSMNB20 285511				

General Accessories: Separation Panels



Separation p. section/section f. sect. depth 200 mm	Separation p. section/section for sect. depth 400 mm	Separation p. section/sect. f. sect. depth 600 mm	Separation p. section/sect. f. sect. depth 800 mm f. sect. depth 600 mm	Separation p. f. plug-in module sect. in Form 2 for sect. depth 800 mm	Separation p. f. plug-in module sect. in Form 2 slidable	Separation p. f. plug-in module sect. in Form 2	
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
XPSS2002 150495	XPSS2004 284781	XPSS2006 284178	XPSS2008 284179	XPSS2004-PI-2 120860	XPSS2006-PI-2 120861		

xEnergy Switchboards

General Accessories: Partitions, Main Busbar Covers over the total Section Width



wa_vt56913



Partition separation p. switchgear a./ main busbar area H = 2000 mm W = 600 mm	Partition separation panel switchgear area/ main busbar area (used for correction) H = 2000 mm W = 800 mm	Main busbar cover over the total section width W=425-600mm	Main busbar cover over the total section width W=800-1000mm	Main busbar cover over the total section width W=1200mm	Main busbar cover over the total section width W=1350mm	
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
XPBM2006 102053	XPBM2008 288998	XPFCB04/06 110265	XPFCB08/10 110266	XPFCB12 110267	XPFCB135 143193	

General Accessories: Main Busbar Covers over the total Section Width (arc-fault protected)



wa_vt56913



Explication: In contrast to the "ordinary" cover of the main busbar, this cover reaches as high as up to the top. So the pressure generated by an arc fault can escape upwards.

Arc-fault protected main busbar cover over the total section width W=425-600mm	Arc-fault protected main busbar cover over the total section width W=800-1000mm	Arc-fault protected main busbar cover over the total section width W=1200mm	Arc-fault protected main busbar cover over the total section width W=1350mm	
Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
XPFCBA04/06 172181	XPFCBA08/10 172180	XPFCBA12 172179	XPFCBA135 172178	

xEnergy Switchboards

General Accessories: Fixing Brackets



VT01211

Fixing brackets for cable strain relief rail

Article No. per unit unit = 10 pcs.

XNNBW-R
141851



wa_vt58313

Brackets for fixing the cable strain relief rail on the side

Article No. per unit unit = 1 pair

XNBW-R2
106740

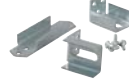


wa_vt58413

Fixing brackets for raising the position of the cable strain relief rail

Article No. per unit unit = 1 pair

XNBW-R3
106741



VT00712

Fixing brackets for cable strain relief rail directly at the frame

Article No. per unit unit = 1 pair

XNBW-R4
158618



VT00812

Fixing angle cable anchoring rails stock

Article No. per unit unit = 1 set

XNBW-RS
168122

Fixing angle cable anchoring rails corner

Article No. per unit unit = 1 set

XNBW-RC
168121

General Accessories: Support Profiles



VT25009

Support profile over the total section height

Article No. per unit unit = 1 pc.

XSMPB20
288997

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

General Accessories: Crossbars, Cross Members, Anchor Rails



Width mm	wa_vt68713	wa_vt68813	wa_vt15013	wa_vt15013	
	Crossbar for bar supports	Cross Memb. (corner sect.)	Anchor rails	Anchor rails for cable out- going s. (UK) only in com- bination with XSMPB20	
	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pair	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	
400	XBBB04 283859	XSFS04 284854	XAR04 283850	XAR04-R2 118737	
600	XBBB06 283860	XSFS06 284775	XAR06 283851	XAR06-R2 118738	
800	XBBB08 283861	XSFS08 284776	XAR08 283852	-	
850	XBBB085 143187	-	XAR085 143183	-	
1000	XBBB10 283862	-	XAR10 283853	-	
1100	XBBB11 133098	-	XAR11 133076	-	
1200	XBBB12 283863	-	XAR12 283854	-	
1350	XBBB135 133099	-	XAR135 133077	-	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

General Accessories: xEnergy Fitting Frames



Width mm	Fitting frame for original xEnergy front panels H = 600 mm Article No. per unit unir = 1 set	Fitting frame for original xEnergy front panels H = 2000 mm Article No. per unit unir = 1 set	
425	XSMEX0604 106556 122461 *	XSMEX2004 106560 122465 *	
600	XSMEX0606 106557 122462 *	XSMEX2006 106561 122466 *	
800	XSMEX0608 106558 122463 *	XSMEX2008 106562 122467 *	
1000	XSMEX0610 106559 122464 *	XSMEX2010 106563 122468 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

General Accessories: Front Panels Closed

Incl. fastening material.



wa_vt54713

Width mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 300 mm	H = 400 mm	H = 600 mm	H = 800 mm
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
425	XME0204C 283922 122121 *	XME0404C 283926 122123 *	XME0604C 283934 122129 *	XME0804C 283939 122134 *	XME1204C 283946 122139 *	XME1604C 283948 122141 *	XME2404C 294923 122412 *	-
600	XME0206C 283924 122122 *	XME0406C 283930 122126 *	XME0606C 283936 122131 *	XME0806C 283942 122136 *	XME1206C 283947 122140 *	XME1606C 283950 122142 *	XME2406C 294924 122413 *	XME3206C 294926 122415 *
800	-	XME0408C 290353 122398 *	XME0608C 106712 122501 *	XME0808C 290352 122397 *	XME1208C 126011 126012 *	XME1608C 290350 122396 *	XME2408C 294925 122414 *	-
1000	-	XME0410C 106713 122502 *	XME0610C 106714 122503 *	XME0810C 106715 122504 *	XME1210C 126013 126014 *	XME1610C 106716 122505 *	XME2410C 106717 122506 *	-
1200	-	-	-	-	-	-	XME2412C 126015 126016 *	-

Note

* Finish in special RAL colour

xEnergy Switchboards

General Accessories: Mounting Plates - without Drill-holes

Incl. fastening material.



wa_v133513

Width mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm	H = 500 mm
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set
425	XME0204M 283923	XME0404M 283929	XME0604M 284727	XME0804M 283941	XME1004M 144585	XME1204M 285684	-	XME1604M 283949	-
600	XME0206M 283925	XME0406M 283933	XME0606M 284728	XME0806M 283945	XME1006M 144586	XME1206M 285686	XME1406M 171724	XME1606M 283951	XME2006M 171725
800	-	XME0408M 285689	XME0608M 285690	XME0808M 285691	XME1008M 171728	XME1208M 285692	XME1408M 171729	XME1608M 285693	XME2008M 171730
1000	-	XME0410M 285695	XME0610M 285696	XME0810M 285697	-	XME1210M 285698	-	XME1610M 285699	-
1200	-	-	-	-	-	-	-	-	-

General Accessories: Mounting Plates - without Drill-holes (to be continued)

Incl. fastening material.



wa_v133513

Width mm	H = 600 mm	H = 800 mm	H = 950 mm	H = 1000 mm	H = 1200 mm	
	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	Article No. per unit unit = 1 set	
425	XME2404M 285685	-	-	-	-	
600	XME2406M 285687	XME3206M 126010	XME3806M 171660	XME4006M 171726	XME4806M 171727	
800	XME2408M 285694	XME3208M 171731	XME3808M 171661	XME4008M 171732	XME4808M 171733	
1000	XME2410M 285700	-	XME3810M 171662	-	-	
1200	XME2412M 102810	-	XME3812M 171663	-	-	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

General Accessories: Mounting Plates as high as the Section, Universal Carrier Plates

Incl. fastening material.



VT20509



VT27810

Width mm	Mounting plate as high as the section, main busbar rear- mounted H = 2000 mm incl. fastening bracket Article No. per unit unit = 1 set			Carrier plate for universal use Article No. per unit unit = 1 set	
425	XSMMFB2004 284263			-	
600	XSMMFB2006 284264			XMH0603 144591	
800	XSMMFB2008 284265			XMH0803 144592	
1000	XSMMFB2010 284266			-	
1200	XSMMFB2012 284267			-	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

General Accessories: Fitting Frames, Mounting Frames

For all other individual components, please refer to the Profi+ or IVS catalogue (front panels, switchgear bars, ...)



wa_vt08513



wa_vt54213

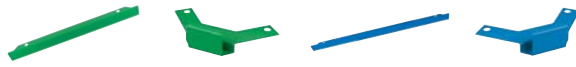


wa_vt23013

Section width mm	Fitting frame for installation outgoers xBoard Profi+ max. fitting depth in door to switchgear a. 135 mm H = 2000 mm Article No. per unit unit = 1 set	Fitting frame for installation outgoers xBoard Profi+ max. fitting depth in door to switchgear a. 185 mm H = 2000 mm Article No. per unit unit = 1 set	Mounting frame for installation outgoers xBoard Profi+ to be used for fixed install., without MSW (cannot be turned out), in addition you will need support brackets for the front panels H = 2000 mm Article No. per unit unit = 1 set	Fitting frame for IVS in xEnergy H = 2000 mm Article No. per unit unit = 1 set	
425	XVTL-BP-W-4/20 115203	XVTL-BP-W-4/20-185 120624	XVTL-BP-F-4/20 115173	XVTL-IVS-4/20 115230	
600	XVTL-BP-W-6/20 115210	XVTL-BP-W-6/20-185 120628	XVTL-BP-F-6/20 115180	XVTL-IVS-6/20 115232	
800	XVTL-BP-W-8/20 115216	XVTL-BP-W-8/20-185 120631	XVTL-BP-F-8/20 115186	XVTL-IVS-8/20 115234	
1000	XVTL-BP-W-10/20 115222	XVTL-BP-W-10/20-185 120634	XVTL-BP-F-10/20 115192	-	
1200	XVTL-BP-W-12/20 115228	XVTL-BP-W-12/20-185 120637	XVTL-BP-F-12/20 115198	XVTL-IVS-12/20 115236	

xEnergy Switchboards

General Accessories: Design strips












Width mm	VT01508 Design strip green Article No. per unit unit = 1 pc.	wa_vt73213 Design strip for corner section green Article No. per unit unit = 1 pc.	VT27910 Design strip blue RAL 5017 Article No. per unit unit = 1 pc.	VT35210 Design strip for corner section blue RAL 5017 Article No. per unit unit = 1 pc.
425	XSFDR04 101667	XSFDC 134483	XSFDR04-B 143201	XSFDL-B 143200
600	XSFDR06 101668	-	XSFDR06-B 143202	-
800	XSFDR08 101669	-	XSFDR08-B 143204	-
850	-	-	XSFDR085-B 143203	-
1000	XSFDR10 101670	-	XSFDR10-B 143205	-
1100	-	-	XSFDR11-B 143206	-
1200	XSFDR12 101671	-	XSFDR12-B 143207	-
1350	-	-	XSFDR135-B 143208	-









 ... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards








General Accessories: Circuit Diagram Pocket, Assembly Kit for Sections, Section Connectors, Edge Protection, Cover Strips, Cable

								
wa_vt27213	wa_vt08413	VT16909	wa_vt72613	VT17009	VT18009	VT18109	wa_vt68513	wa_vt68513
Section connecting brackets Article No. per unit unit = 2 pcs.	Circuit diagram pocket Article No. per unit unit = 1 pc.	Set of sect. connecting material Article No. per unit unit = 1 set	Section connectors Article No. per unit unit = 4 pcs.	Set of sect. connecting material IP55 Article No. per unit unit = 1 set	Edge protection Article No. per unit unit = 2 m	Cover strips 12 MU (blind covers) Article No. per unit unit = 1 pc.	Cable duct supports W = 425 mm Article No. per unit unit = 1 pc.	Cable duct supports W = 600 mm Article No. per unit unit = 1 pc.
XACB 134484	XAB4 283482	XAC 283483	XACC 126859	XAC55 284793	XAK 283818	XAS12 284708	XADB04 284710	XADB06 284711

General Accessories: Grounding Cable, Lifting Eyebolts, Hinges

							
VT16509	wa_vt69313	VT16709	wa_vt69213	wa_vt01707	VT25509		
Grounding cable 10 mm ² L = 420 mm Article No. per unit unit = 20 pcs.	Grounding cable 10 mm ² L = 180 mm Article No. per unit unit = 20 pcs.	Grounding cable 6 mm ² L = 300 mm Article No. per unit unit = 1 pc.	Grounding cable 4 mm ² L = 420 mm Article No. per unit unit = 20 pcs.	Grounding cable 4 mm ² L = 180 mm Article No. per unit unit = 20 pcs.	Lifting eyebolts Article No. per unit unit = 4 pcs.	Hinges 180° Article No. per unit unit = 2 pcs.	Hinges 180° left Article No. per unit unit = 2 pcs.
XNAE10 141842	XNAE10-18 141843	BF2-OES 101665	XNAE4-42 141845	XNAE4-18 141844	XAT 283855	XAH180 284713	XAH180L 284792


General Accessories: Fixing Brackets, Bar Supports, Earthquake Reinforcement Brackets Set

							
wa_vt58513	wa_vt72513	VT27409	VT27309	VT09706	VT09013		
Fixing brackets bar supports Article No. per unit unit = 10 pcs.	Fixing brackets bar supports D = 600 mm Article No. per unit unit = 10 pcs.	Fixing brackets bar supports D = 800 mm Article No. per unit unit = 10 pcs.	Fixing brackets bar supports D = 600 mm Article No. per unit unit = 10 pcs.	Fixing brackets bar supports D = 800 mm Article No. per unit unit = 10 pcs.	Fixing brackets for mounting rails Article No. per unit unit = 4 pcs.	Earthquake reinforcement brackets set Article No. per unit unit = 1 set	
XNNBW-G 141848	XNNBW-E06 141846	XNNBW-E08 141847	XNNBW-G06 141849	XNNBW-G08 141850	XTAAB1 173036	XNBW-M 290215	XASMS 171739

... also for use in the Main Bus Bar Top (BBT) system


xEnergy Switchboards

General Accessories: GFK Supports




Length mm	GFK supports 50x10	GFK supports 30x15	GFK supports 30x19	GFK supports 30x30	GFK supports 25x25
	Article No. per unit unit = 5 pcs.	Article No. per unit unit = 5 pcs.	Article No. per unit unit = 5 pcs.	Article No. per unit unit = 5 pcs.	Article No. per unit unit = 5 pcs.
1150	XNNS-50X10 141874	XNNS-30X15 133071	XNNS-30X19 133072	XNNS-30X30 141872	XNNS-25X25 141873
1300	XNNS-50X10X1300 133075	-	XNNS-30X19X1300 133074	XNNS-30X30X1300 133073	-

General Accessories: Diaphragm Grommets



	Diaphragm grommets metric M16 H03VV-F3x0,75mm ² NYM 1x16,3x1,5mm ² Article No. per unit unit = 100 pcs.	Diaphragm grommets metric M20 H03VV-F3x0,75mm ² NYMM 5x1,5x2,5mm ² Article No. per unit unit = 100 pcs.	Diaphragm grommets metric M25 H03VV-F3x0,75mm ² NYM4x10mm ² Article No. per unit unit = 100 pcs.	Diaphragm grommets metric M32 H03VV-F3x0,75mm ² NYM 4x16/5x10mm ² Article No. per unit unit = 100 pcs.	
	KT-M16 216983	KT-M20 207602	KT-M25 207603	KT-M32 207604	

General Accessories: F3A Flanges



	VT28210	VT17407	VT09208	VT17507	VT17307	VT17607	VT17707	VT17807	VT17207
Flange cap vented	Blank plate	Blank plate sheet steel	4xM16, 6xM25/16, 8xM32/20	2xM20, 8xM25/16, 4xM32/20, 1xM50/32	2xM16, 12xM20, 2xM40/25, 2xM50/32	24xM16, 13xM20	2 grommets for cables up to Ø 70mm	Sponge-rubber flange 40 cables Ø 10-13mm 4 cables Ø 17-21mm 2 cables Ø 27-30mm	
Article No. per unit unit = 1 pc.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.	Article No. per unit unit = 1 pc.
F3A-V 149194	F3A-0 074182	F3A-XP 113426	F3A-4 081301	F3A-8 091468	F3A-12 076555	F3A-34 078928	F3A-KTD 083674	F3A-D 010145	

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

General Accessories: UFK Flanges



VT34510

Fixing set for UFK flanges

Article No. per unit unit = 1 set

XBFUK
150665



VT34710

Add-on frame allowing to fix a UFK flange in a cut-out for F3A flanges

Article No. per unit unit = 1 pc.

UFK-AFP-F3A
150642



VT35010

Flange 8xM20, 6xM25 5xM32, 7xM40

Article No. per unit unit = 1 pc.

UFK1
150661



VT34810

Flange 4xM16, 32xM20 4xM25, 3xM40

Article No. per unit unit = 1 pc.

UFK3
150662



VT35110

Flange 6xM16, 12xM20 15xM25, 3xM32 3xM40

Article No. per unit unit = 1 pc.

UFK3
150663



VT34910

Flange 6xM16, 1xM20 4xM25, 5xM32 3xM50/63

Article No. per unit unit = 1 pc.

UFK4
150664

General Accessories: Locks and Lock Mechanisms



VT17209

Adapter kit profile half cylinder

Article No. per unit unit = 1 set

XALA
283819



VT02809

Adapter kit profile half cylinder KABA

Article No. per unit unit = 1 set

XALA-KABA
110087
122588 *



N8199

Profile half cylinder 10/30 single-door locking 1 key
Article No. per unit unit = 1 set

PHZ-E10/30-GS
138574



N8199

Profile half cylinder 10/30 multi-door locking 3 keys
Article No. per unit unit = 1 set

PHZ-E10/30-VS
138575



N8199

Reserve key single-door locking

Article No. per unit unit = 3 pcs.

KEY-E10/30-GS
138576



VT01912

Keyplate for 3 mm Two-way Keybit

Article No. per unit unit = 1 set

XALKP-3MM-TWKB
168933



wa_vt69413

Lock mechanism clip-down handle

Article No. per unit unit = 1 set

XALP
283821



VT27509

Fixing bracket for door contact switch
Article No. per unit unit = 1 set

XAGGCB
126017

General Accessories: Paint, Door Profiles



VT12208

Spray paint RAL 7035

Article No. per unit unit = 1 pc.

XAFS7035
101401



VT09405

Repair paint RAL 7035

Article No. per unit unit = 1 pc.

XAFL7035
101402

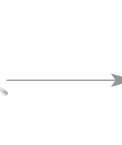


wa_vt78113

Door profile H = 600 mm for fixing cable ducts

Article No. per unit unit = 2 pcs.

XAGD06
116459
122623 *



Door profile H = 2000 mm for fixing cable ducts

Article No. per unit unit = 1 pc.

BPZ-TP-20
119222

... also for use in the Main Bus Bar Top (BBT) system

xEnergy Switchboards

General Accessories: Steel Clips, Copper Clips, Pressure Plate for Cu-Strip



wa_vt58713

wa_vt58613

VT34410

Steel clip (equal to copper clips)	Copper clips 3 mm thick	Copper clips 10 mm thick 30 mm wide	Copper clips 10 mm thick 50 mm wide	Copper clips 10 mm thick 60 mm wide	Copper clips 10 mm thick 80 mm wide	Copper clips 10 mm thick 100 mm wide	Pressure plate for Cu-strips 11x21x10	Pressure plate for Cu-strips 10x16x0.8
Article No. per unit unit = 50 pcs.	Article No. per unit unit = 50 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.	Article No. per unit unit = 10 pcs.
XNNSB 141875	XNNCB 141852	XNNCD 141853	XNNCD50 141855	XNNCD60 141856	XNNCD80 141857	XNNCD100 141854	XNSPP-11X21X10 144602	XNSPP-10X16X08 144603

General Accessories: Sealing Plugs, xEnergy Spare Parts, xEnergy-Sticker



VT34610

VT04207

VT01212

Set of sealing plugs 10.5 mm = 50 pcs. 5.5 mm = 50 pcs.	xEnergy spare parts comprising: 5x hinges 6x locking hooks for 1/3 door 3x locking hooks for the top, 3x locking hooks for the bottom, suitable for door as high as the section, screws included	xEnergy-Sticker	
Article No. per unit unit = 100 pcs.	Article No. per unit unit = 1 set	Article No. per unit unit = 1 pc.	
XNIK-SPARE 134486	XNSPS 107989	xEnergy-Brandstrip 167633	

... also for use in the Main Bus Bar Top (BBT) system

Components for 5000 A Applications

Frame parts	Page 386
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Top panels/Bottom panels	Page 388
Partition/Internal separation	Page 389

xEnergy Switchboards

Frames

Come with blue design strip



VT13310



VT00811



VT00111



wa_vt65713

Section width mm	Frame depth 200 mm for 5000 A application consists of top and bottom element Article No. per unit unit = 1 set	Vertical profiles for 5000 A application consists of 4 profiles Article No. per unit unit = 1 set	Section depth mm	Corner section extension set 1050x1050 for 5000 A application to fit on standard corner section Article No. per unit unit = 1 set	Add-on frame width 150 mm for 5000 A application Article No. per unit unit = 1 pc.
425	XSFB0402 150464 151686 *	XSFH20-I-D 150482 151694 *	1000	XSC200808-E10 150522	XSAF2000-150-1000 150493 151705 *
600	XSFB0602 150465 151687 *				
800	XSFB0802 150466 151688 *				
850	XSFB08502 150467 151689 *				
1000	XSFB1002 150468 151690 *				
1100	XSFB1102 150469 151469 *				
1200	XSFB1202 150480 151692 *				
1350	XSFB13502 150481 151693 *				

Note

* Finish in special RAL colour

xEnergy Switchboards

Plinths

Consist of: 4x corner element, 2x side plate, 2x front cover/rear cover



VT08106



wa_vt66713



wa_vt69513

Section width mm	Plinth				Frame width mm	Plinth for add-on frames	
	Height 100mm section depth 1000mm for 5000 A application Article No. per unit unit = 1 pc.	Height 200mm section depth 1000mm for 5000 A application Article No. per unit unit = 1 pc.	Plinth for corner sections Height 100mm section depth 1000mm Article No. per unit unit = 1 pc.	Plinth for corner sections Height 200mm section depth 1000mm Article No. per unit unit = 1 pc.		height 100 mm width 150 mm Article No. per unit unit = 1 pair	height 200 mm width 150 mm Article No. per unit unit = 1 pair
425	XAP010410 150496 151707 *	XAP020410 150504 151715 *	-	-	150	XAP01AF150 150491 151703 *	XAP02AF150 150492 151704 *
600	XAP010610 150497 151708 *	XAP020610 150505 151716 *	-	-			
800	XAP010810 150498 151709 *	XAP020810 150506 151717 *	-	-			
850	XAP0108510 150499 151710 *	XAP0208510 150507 151718 *	-	-			
1000	XAP011010 150500 151711 *	XAP021010 150508 151719 *	XAP011010C 150512 151723 *	XAP021010C 150513 151724 *			
1100	XAP011110 150501 151712 *	XAP021110 150509 151720 *	-	-			
1200	XAP011210 150502 151713 *	XAP021210 150510 151721 *	-	-			
1350	XAP0113510 150503 151714 *	XAP0213510 150511 151722 *	-	-			

Note

* Finish in special RAL colour

xEnergy Switchboards

Panels



VT07706



VT07906

Top panels/Bottom panels



wa_vt25513

Section depth mm	Side panel up to IP55 Article No. per unit unit = 2 pcs.	Separation panel section/ section Article No. per unit unit = 1 pc.	Section width mm	Top panel Bottom panel closed 200 mm depth up to IP55 for 5000 A appliances Article No. per unit unit = 1 pc.
200	XAW2002 150494 151706 *	XPSS2002 150495	425	XSPTC0402 150483 151695 *
			600	XSPTC0602 150484 151696 *
			800	XSPTC0802 150485 151697 *
			850	XSPTC08502 150486 151698 *
			1000	XSPTC1002 150487 151699 *
			1100	XSPTC1102 150488 151700 *
			1200	XSPTC1202 150489 151701 *
			1350	XSPTC13502 150490 151702 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Partition/Internal separation



wa_vt71313

Section width mm	Partition extension for 5000 A application busbar area/ main busbar area/ (suitable for IZM and NZM)	
	Article No. per unit	
425	XPIBCB-H-04019 150514	
600	XPIBCB-H-06019 150515	
800	XPIBCB-H-08019 150516	
1000	XPIBCB-H-10019 150518	
1100	XPIBCB-H-11019 150519	
1200	XPIBCB-H-12019 150520	
1350	XPIBCB-H-135019 150521	

xEnergy Switchboards

Accessories for Outgoing Sections: Continuous Mounting Plate/Partition for Cable Connection Area in an Outgoing Section

For fixing terminals/contact blocks in the cable connection area; it also serves as a partition between cable connection area and main busbar area. For outgoing sections in a 5000 A system (with an additional main busbar area) using this type of partitions is compulsory.

Section width mm	Switchgear area width mm	Cable connect. area width mm	NZM outgoing sections Form 2/4 Article No. per unit unit = 1 set	Switch fuse unit section without door to the switchgear area Article No. per unit unit = 1 set	Removable design sections in 2/4 and SSL switch fuse unit sections with door to switchgear area Article No. per unit unit = 1 set
600	425	172	XPFB172 158606		
800	425	372	XPFB372 158607		
	600	197	XPFB197 158608		
1000	600	397	XPFB397 158609		
1200	600	597	XPFB597 158610		
1000	600	385		XPSB385 158611	
1200	600	585		XPSB585 158613	
1000	600	320			XPSB320 158612
1200	600	520			XPSB520 158614

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xEnergy Switchboards

Standards, formulae, tables - degrees of protection of electrical components

The International Protection Rating of electric components through enclosures, covers and similar measures according to IEC/EN 60529 (VDE 0470 Part1)

The level of protection of electric components through suitable encapsulation consists of the letters IP followed by two digits. The first digit indicates the level of protection against unintentional contact and ingress of solid foreign bodies. The second digit indicates the protection of the equipment inside the enclosure against harmful ingress of water.

Protection against unintentional contact and ingress of solid foreign bodies

First digit	Protected against	Explanation
0	Not protected	No particular protection of individuals against contact with live or movable parts. No protection against ingress of solid foreign objects.
1	Protected against object size ≥ 50 mm	Protected against access of the back of a hand to hazardous parts. The access probe, a ball of 50 mm diameter, needs to be placed in sufficient distance to hazardous parts. The object probe, a ball of 50 mm diameter, must not be able to fully penetrate.
2	Protected against object size ≥ 12.5 mm	Protected against access to hazardous parts with a finger. The subdivided test finger of 12 mm diameter and 80 mm length must be at a safe distance from hazardous parts. The object probe, a ball of 50 mm diameter, must not be able to fully penetrate.
3	Protected against object size ≥ 2.5 mm	Protected against access to hazardous parts with a tool. The access probe of 2.5 mm diameter must not be able to penetrate. The object probe of 2.5 mm diameter must not be able to penetrate at all.
4	Protected against object size ≥ 1 mm	Protected against access to hazardous parts with a piece of wire. The access probe of 1 mm diameter must not be able to penetrate. The object probe of 1 mm diameter must not penetrate at all.
5	Protected against dust deposit	Protected against access to hazardous parts with a piece of wire. The access probe of 1 mm diameter must not be able to penetrate. Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.
6	Protected against ingress of dust Dust tight	Protected against access to hazardous parts with a piece of wire. The access probe of 1 mm diameter must not be able to penetrate. No ingress of dust.

Protection against harmful ingress of water

Second digit	Protected against	Explanation
0	Not protected	No particular protection.
1	Protected against vertically dripping water	Dripping water (vertically falling drops) shall have no harmful effect.
2	Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle of up to 15° from its normal position on either side of the vertical line.
3	Protected against spraying water	Water falling as a spray at any angle up to 60° from the vertical line shall have no harmful effect.
4	Protected against splashing water	Water splashing against the enclosure from any direction shall have no harmful effect.
5	Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect.
6	Protected against powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effect.
7	Protected against occasional immersion	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time.
8	Protected against permanent immersion	The equipment is suitable for continuous immersion in water under conditions which shall be agreed between the manufacturer and the user. The conditions must be more difficult than in code number 7.
9K *)	Protected against high-pressure or steam-jet cleaning	Water coming from any direction under increased pressure shall have no harmful effect. Water pressure 100 bar. Water temperature 80° C.

*) This code number is defined in the DIN 40050-9 standard

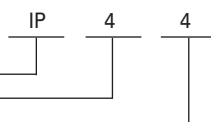
Example for the specification of the

degree of protection:

Protection rating

First digit

Second digit



xEnergy Switchboards

Standards, formulae, tables - overcurrent protection of cables and conductors

Minimum cross-sections for protective conductors acc. to DIN VDE 0100-510 (1987-06, t), DIN VDE 0100-540 (1991-11)

Phase conductor mm ²	Prot. cond. or PEN-conductor ¹⁾		Prot. conductor ³⁾ separately laid		
	Insulated high-voltage lines mm ²	0.6/1-kV-cable with 4 conductors mm ²	Protected mm ²		Unprotected ²⁾ mm ²
			AL	Cu	
up to 0.5	0.5	–	2.5	4	4
0.75	0.75	–	2.5	4	4
1	1	–	2.5	4	4
1.5	1.5	1.5	2.5	4	4
2.5	2.5	2.5	2.5	4	4
4	4	4	4	4	4
6	6	6	6	6	6
10	10	10	10	10	10
16	16	16	16	16	16
25	16	16	16	16	16
35	16	16	16	16	16
50	25	25	25	25	25
70	35	35	35	35	35
95	50	50	50	50	50
120	70	70	70	70	70
150	70	70	70	70	70
185	95	95	95	95	95
240	–	120	120	120	120
300	–	150	150	150	150
400	–	185	185	185	185

1) PEN-conductor ≥ 10 mm² Cu or 18 mm² Al.

2) Unprotected laying of aluminium conductors is not authorized.

3) As of a phase conductor cross-section of ≥ 95 mm² we recommend you preferably use blank conductors.

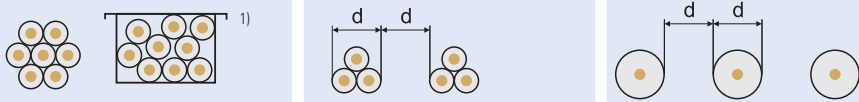
Standards, formulae, tables - rated motor currents

Motor capacity kW cos φ η [%]			230 V			400 V		
			Rated motor current	Fuse Direct start	Y/ Δ	Rated motor current	Fuse Direct start	Y/ Δ
0,06	0,7	58	A	A	A	A	A	A
0,09	0,7	60	0,37	2	–	0,21	2	–
0,12	0,7	60	0,54	2	–	0,31	2	–
0,18	0,7	62	0,72	4	2	0,41	2	–
0,25	0,7	62	1,04	4	2	0,6	2	–
0,37	0,72	66	1,4	4	2	0,8	4	2
0,55	0,75	69	2	6	4	1,1	4	2
0,75	0,79	74	2,7	10	4	1,5	4	2
1,1	0,81	74	3,2	10	4	1,9	6	4
1,5	0,81	74	4,6	10	6	2,6	6	4
2,2	0,81	78	6,3	16	10	3,6	6	4
3	0,82	80	8,7	20	10	5	10	6
4	0,82	83	11,5	25	16	6,6	16	10
5,5	0,82	86	14,8	32	16	8,5	20	10
7,5	0,82	87	19,6	32	25	11,3	25	26
11	0,84	87	26,4	50	32	15,2	32	16
15	0,84	88	38	80	40	21,7	40	25
18,5	0,84	88	51	100	63	29,3	63	32
22	0,84	92	63	125	80	36	63	40
30	0,85	92	71	125	80	41	80	50
37	0,86	92	96	200	100	55	100	63
45	0,86	93	117	200	125	68	125	80
55	0,86	93	141	250	160	81	160	100
75	0,86	94	173	250	200	99	200	125
90	0,86	94	233	315	250	134	200	160
110	0,86	94	279	400	315	161	250	200
132	0,87	95	342	500	400	196	315	200
160	0,87	95	401	630	500	231	400	250
200	0,87	95	486	630	630	279	400	315
250	0,87	95	607	800	630	349	500	400
315	0,87	96	–	–	–	347	630	500
400	0,88	96	–	–	–	544	800	630
450	0,88	96	–	–	–	683	1000	800
500	0,88	97	–	–	–	769	1000	800
560	0,88	97	–	–	–	–	–	–
630	0,88	97	–	–	–	–	–	–

xEnergy Switchboards

Standards, formulae, tables - max. operating current allowed and power loss of insulated conductors acc. to EN 60890

Max. conductor temperature allowed is 70°C



Air temperature inside the enclosure, around the conductor

mm ²	35°C		55°C		35°C		55°C		35°C		55°C	
	Operating curr. A	Power loss ²⁾ W/m	Operating curr. A	Power loss ²⁾ W/m	Operating curr. A	Power loss ²⁾ W/m	Operating curr. A	Power loss ²⁾ W/m	Operating curr. A	Power loss ²⁾ W/m	Operating curr. A	Power loss ²⁾ W/m
1,5	12	2,1	8	0,9	12	2,1	8	0,9	12	2,1	8	0,9
2,5	17	2,5	11	1,1	20	3,5	12	1,3	20	3,5	12	1,3
4	22	2,3	14	1,1	25	3,4	18	1,8	25	3,4	20	2,2
6	28	2,8	18	1,2	32	3,7	23	1,9	32	3,7	25	2,3
10	38	3,0	25	1,3	48	4,8	31	2,0	50	5,2	32	2,1
16	52	3,7	34	1,6	64	5,6	42	2,4	65	5,8	50	3,4
25					85	6,3	55	2,6	85	6,3	65	3,7
35					104	7,5	67	3,1	115	7,9	85	5,0
50					130	7,9	85	3,4	150	10,5	115	6,2
70					161	8,4	105	3,6	175	9,9	149	7,2
95					192	8,7	125	3,7	225	11,9	175	7,2
120					226	9,6	147	4,1	250	11,7	210	8,3
150					275	11,7	167	4,3	275	11,7	239	8,8
185					295	10,9	191	4,6	350	15,4	273	9,4
240					347	12,0	225	5,0	400	15,9	322	10,3
300					400	13,2	260	5,6	460	17,5	371	11,4

Conductors for auxiliary power circuits

					Cross-section
0,12	2,6	1,2	1,7	0,5	0,4
0,14	2,9	1,3	1,9	0,6	-
0,20	3,2	1,1	2,1	0,5	-
0,22	3,6	1,3	2,3	0,5	0,5
0,30	4,4	1,4	2,9	0,6	0,6
0,34	4,7	1,4	3,1	0,6	0,6
0,50	6,4	1,8	4,2	0,8	0,8
0,56	6,4	1,6	4,2	0,7	-
0,75	8,2	1,9	5,4	0,8	1,0
1,00	9,3	1,8	6,1	0,8	-

¹⁾ Any way of laying, 6 wires at 100% load at the same time.

²⁾ Single length.

In case of less conductor load, you can calculate as follows:

$$P = P_n \left(\frac{I}{I_n} \right)^2$$

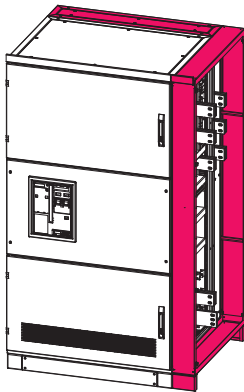
- P Power loss in W/m
- I Conductor current (load)
- I_n Operating current
- P_n Power loss at I_n

xEnergy Switchboards

XP = Power sections

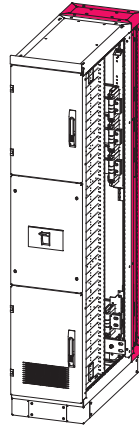
Incoming supplies, outgoers and couplings up to 5000 A

- cable connection from the top and bottom
- busbar positions rear-mounted - bottom/top mounted or running under the top panel
- section height 2000 mm / section depth 400/600/800/1000 (1000 = 800+200) mm
- internal separations up to Form 4



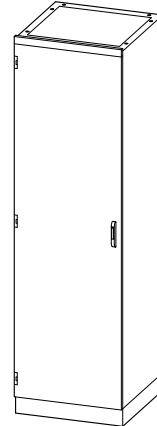
Air circuit breakers IZM and IZMX

- widths of 425/600/800/1000/1100/1200/1350 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 630 - 5000 A
- Form 4
- IP31, IP55 with IZM-XDT protective cover
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated from outside
- suitable for switchgear with remote operation



Compact circuit breakers NZM3/4 in Form 4

- widths of 425/600/800 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 250 - 630 A (NZM3)
- 630 - 1600 A (NZM4)
- Form 4
- IP31/55
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated from outside
- installation of two switching devices in one section is possible
- suitable for switchgear with remote operation

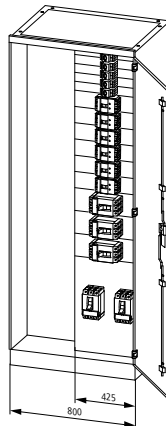


Compact circuit breakers NZM4 in Form 2

- widths of 425/600/800 mm
- fixed or withdrawable
- 3 or 4 poles
- with a second busbar suitable as a coupling section
- 630 - 1600 A
- Form 2
- IP31/55
- suitable for drill-free cable connection, can be installed at the top or bottom
- to be operated behind the door as high as the section
- suitable for switchgear with remote operation

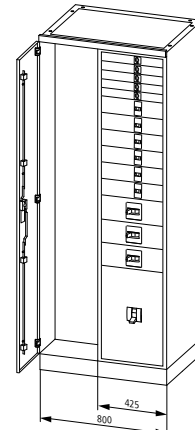
XF = Outgoing sections - Fixed design

- Outgoers with circuit breakers PKZ, NZM, FAZ, switch fuse units and fuse switch disconnectors up to 630 A
- for busbar positions at the rear - top/bottom or running under the top panel
- section height 2000 mm / section depth 600/800 mm



Outgoing sections for outgoers up to 630 A in Form 2

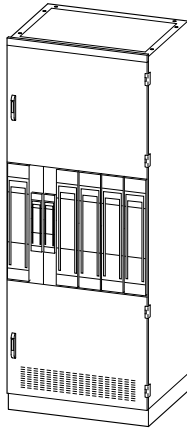
- widths of 800/1000/1200 mm
- module widths of 425 and 600 mm
- 3 or 4 poles
- Form 2
- IP31/55
- consistent mounting height of switchgear
- circuit breakers suitable for use with plug base
- single-wing section door up to 800/1000 mm, 2-wing door for 1200 mm
- suitable for switchgear with remote operation
- operation behind the door
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/ cable connection area



Outgoing sections for fixed outgoers up to 630 A in Form 4

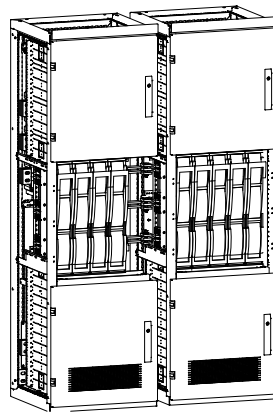
- widths of 800/1000/1200 mm
- module widths of 425 and 600 mm
- each module comes with its own front panel
- 3 or 4 poles
- Form 4
- IP31/55
- circuit breakers suitable for use with plug base - NZM3 with plug base ... in 800 mm deep sections
- suitable for switchgear with remote operation
- separate doors to switchgear area and connection area
- transparent doors (glass doors) are possible
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/cable connection area

xEnergy Switchboards



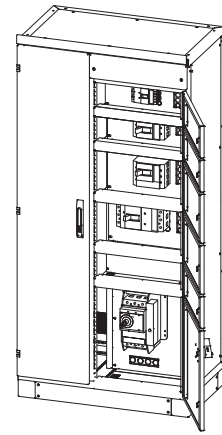
Outgoing sections for fuse strips up to 630 A (SL)

- widths of 600/800/1000 mm
- vertical position of fuse strips
- IP31/ IP55 with door in section height
- outgoers are possible downwards and upwards
- Form 2
- operation from outside or behind the door



Outgoing section for fuse strips up to 630A with section dropper bar up to 1600-3200 A (SL-I) across two sections

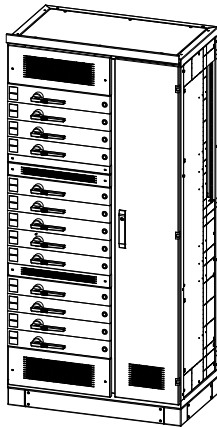
- widths of 600/800/1000 mm
- dropper bar to be selected from 1600-3200 A
- Form 2
- fuse strips in vertical position
- IP31/ IP55 with door as high as the section
- outgoers are possible downwards and upwards
- up to 40% Cu savings
- operation from outside or behind the door
- quick and easy mounting of fuse strips thanks to the double-bar system



Box solution

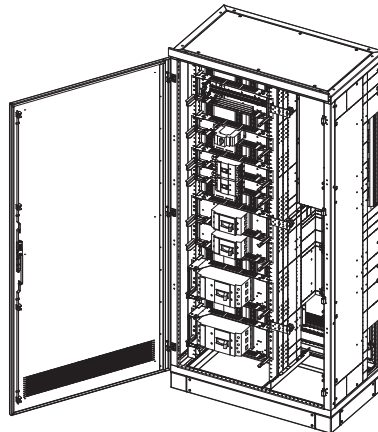
- widths of 600/1000/1200 mm
- module widths of 425/600 mm
- each module comes with its own door to the switchgear area
- 3 or 4 poles
- fixed or withdrawable
- suitable for switchgear with remote operation
- to be operated behind the door or with rotary door coupling handle
- dropper bar to be selected from 800-1600 A
- empty and module panels for the set-up of outgoers (RCD, FAZ ...)
- Form 4
- IP31/55

XR = Outgoing sections -Removable design



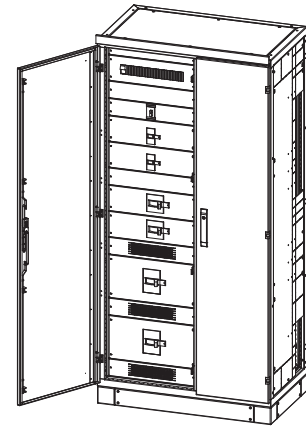
Outgoing sections for switch fuse units (load disconnecter units) up to 630 A (SSL)

- widths of 600/800/1000/1200 mm
- suitable for rear-mounted main busbar HSS
- horizontal and vertical position of fuse switch disconnecter strips is possible
- can be installed while energized (fuse strips)
- IP31
- outgoers are possible downwards and upwards
- Form 4
- operation from outside
- dropper bar selectable from 800-1600 A



Plug-in module technology - outgoing sections in Form 2

- widths of 800/1000/1200 mm
- module width 600 mm
- Form 2
- 3 or 4 poles
- IP31/55
- consistently equal mounting height of the switchgear
- single-wing section door with 800/1000 mm, double-wing door with 1200 mm
- suitable for switchgear with remote operation
- to be operated behind the door
- empty plug-in module for the incorporation of RCD, FAZ ...
- dropper bar selectable from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/cable connection area

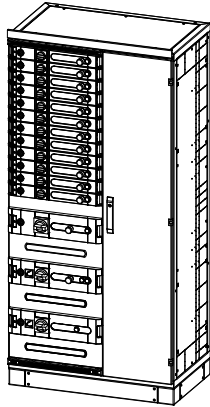


Plug-in module technology - outgoing sections in Form 4

- widths of 800/1000/1200 mm
- module width 600 mm
- Form 4
- 3 or 4 poles
- IP31/55
- each module comes with its own front panel
- separate doors to switchgear area and connection area
- transparent doors (glass doors) are possible
- empty plug-in module for the incorporation of RCD, FAZ ...
- to be operated behind the door
- dropper bar to be selected from 800-1600 A
- separate set-up in 2 separate sections is possible, e.g. 600 mm/600 mm. Switchgear area/cable connection area

xEnergy Switchboards

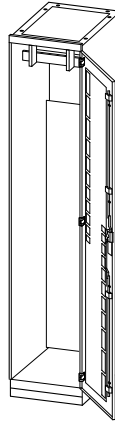
**XW = Outgoing sections
- Withdrawable design**



Outgoing sections - withdrawable design

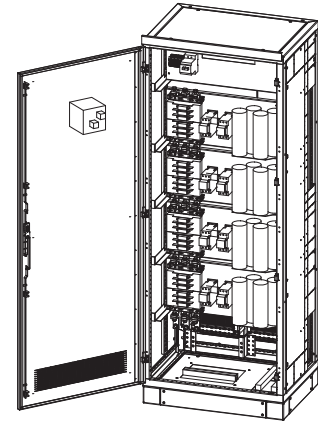
- widths of 1000/1200 mm
- section depths of 600/800/1000 mm
- 3 or 4 poles
- rated current of dropper bars $I_n=1000$ or 2000 A / 3 or 4 poles
- max. short-circuit current $I_{CW}=80$ kA
- IP31/55
- shelf-boards can be mounted at individual heights, depending on the size of the modules
- max. height of dropper bar available to accommodate equipment = 1875 mm
- cable connection area, fully sealed off from the switchgear area, main busbar area and dropper bar area
- dropper bar at the front fully sealed off thanks to self-closing shutters
- drawers available:
 - power outgoing up to 630 A
 - direct starters from 0.06-132 kW
 - reverse starters from 0.06-132 kW
 - star-triangle starters from 5.5-110 kW
- outgoing from 132 to 250 kW are executed as fixed design solutions

**XG = Empty sections for
General equipment**

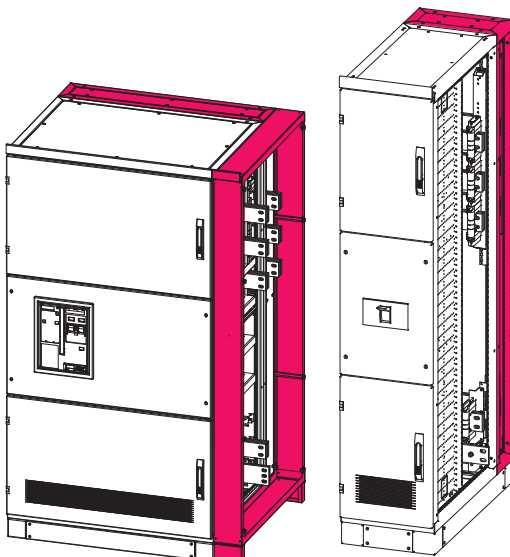


Empty sections for individual mounting units

- fitting systems for modular installation devices (IVS, EP, Profi+ ...)
- individual mounting units fixed on mounting plates
- control technology - suitable for installation of mounting plates as high as the section, or of split ones
- section height 2000 mm
- section depths of 400/600/800 mm
- section widths of 425/600/800/850/1000/1100/1200/1350 mm
- IP31/55



System description - 5000 A Solution



Kat_5000_LF_1

Kat_5000_LF_2

For 5000 A, the red-coloured parts are required in addition.

Up to 5000 A

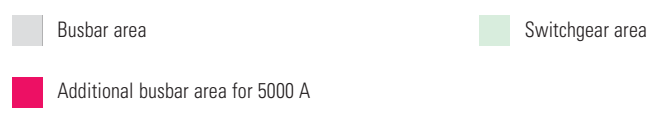
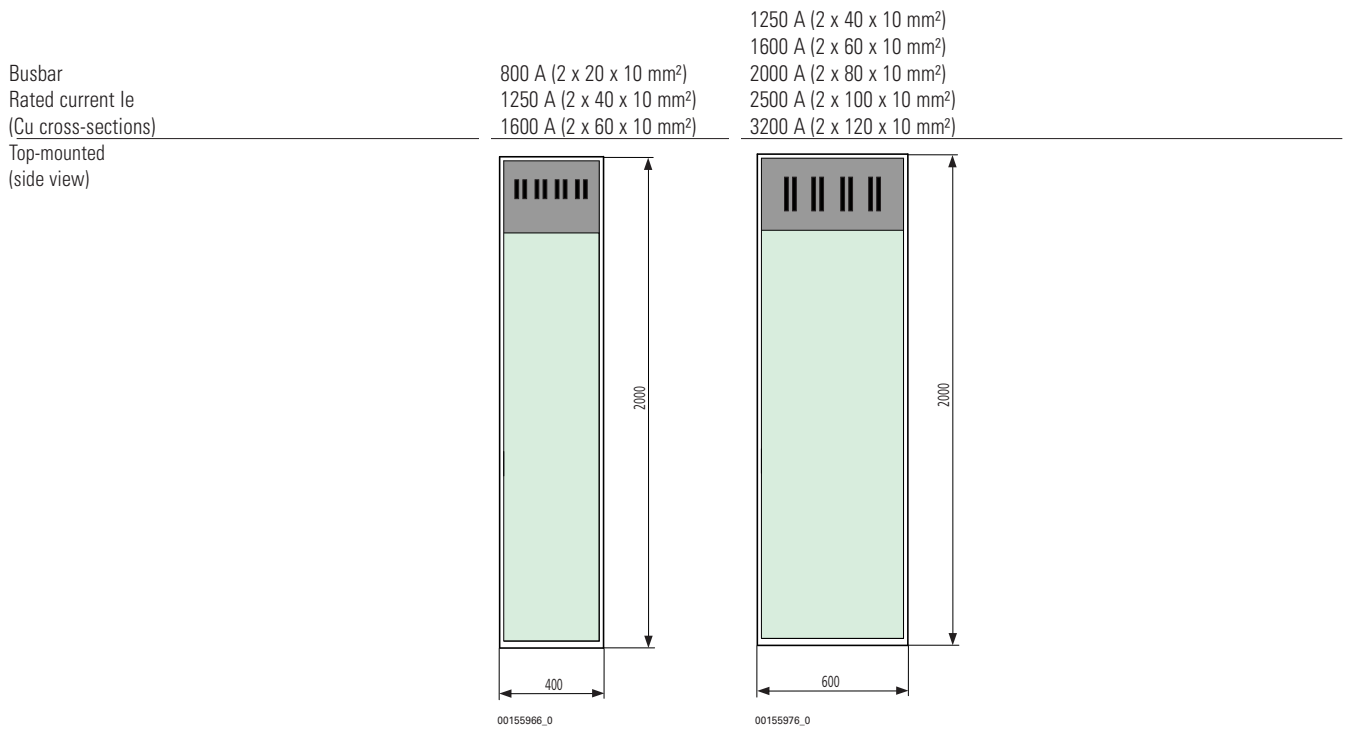
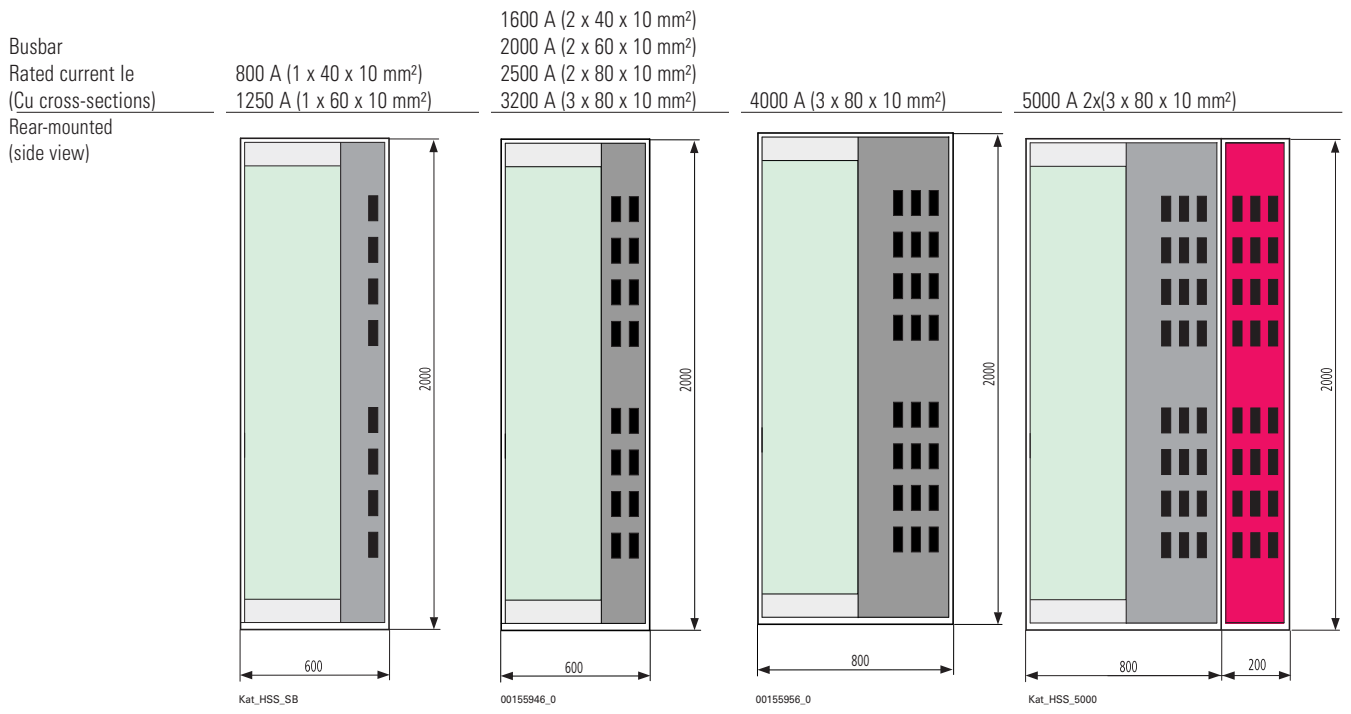
Generally, all section variants can also be used for the 5000 A solution. In order to get the 5000 A at the main busbar, you need to add an extra 200 mm deep frame at the rear of the standard section (800 mm deep) so as to create the space necessary for a second main busbar track.

You may need to check if extra partitions are required!

System explanation see the page after the next one.

xEnergy Switchboards

System description - main busbars and section depths



xEnergy Switchboards

Grounding Concept

The equipotential bonding in the xEnergy switchboard cabinet system is based on several protective measures

- 1) Grounding thanks to fixing the grounding bar directly at the frame
- 2) Grounding thanks to ring-type tapping screws
- 3+4) Grounding thanks to a grounding cable
- 5) Grounding thanks to toothed washers

1) Grounding bar

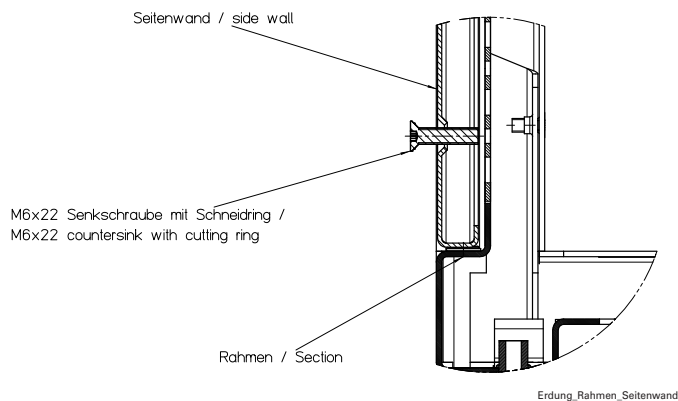
The grounding bar is directly fixed at the frame with an XBSP carrier bracket no. 283872. Each bracket needs to be fixed with 3 self-tapping screws (Tapetite M6x12). This means that at least 2 of these fixing brackets are mounted in each cabinet, which is enough to establish a sufficient grounding connection to the frame. Should you wish to build cabinets without a grounding bar (e.g. general sections), the equipotential bonding has to be done directly at the grounding point of the frame (the grounding point is situated on the right side of the floor-standing group of the frame).

2) Paneling

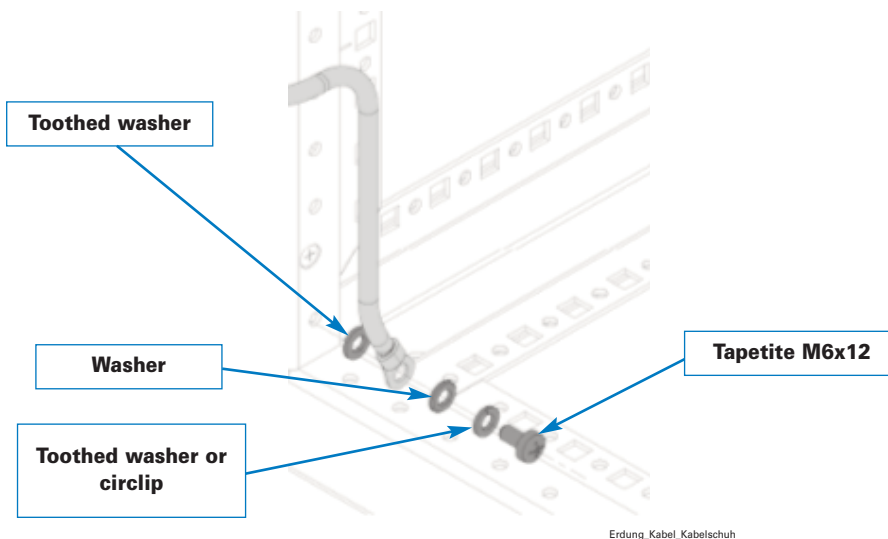
All parts that are added and screw-fixed to the cabinet will be fixed with ring-type self-tapping screws. The cutting ring on the screws penetrates the coating of the paneling and creates a permanently conductive connection. This system of ground connection is used for "top and ground panels, rear and side panels as well as for connections of the base frame with vertical profiles".

If electrical equipment is installed on the side or rear panels, these panels need extra grounding through a wire. Each paneling element comes with its own grounding bolt welded to it. From that bolt a round Cu conductor establishes a connection to the frame structure, in accordance with the ratio of the cross section of the external conductor of the additional electrical equipment.

Cross section frame/side panel



Arrangement/fixing of a ground connection by means of a cable and cable lug



xEnergy Switchboards

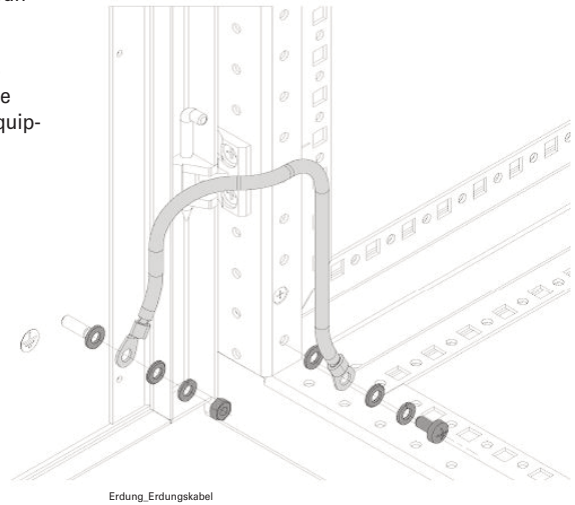
Grounding concept

3) Doors

According to the IEC 61439-1 standard a connection via the metal hinges would do. In order not to take any risk Eaton has opted for the safe method of using an additional grounding cable. Use a round Cu conductor to establish a connection from the grounding bolt on the door to the frame (pre-fabricated XNAE-18 grounding cables no. 141844 or factory-made grounding cables).

If electrical equipment is installed on doors where the external conductor needs to carry more than 25A, the equipotential bonding of the door must be in line with the ratio of the cross section/rated current of the external conductor of the electrical equipment.

The grounding connection between the door and the frame has to be installed as shown in the following illustration.



4) Equipment installed

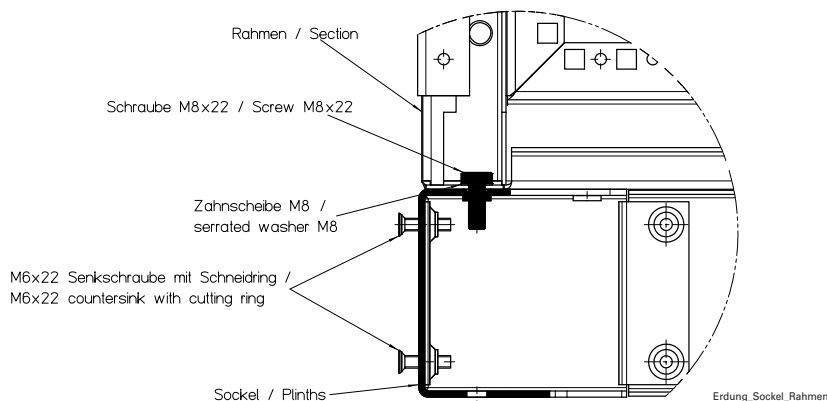
Metal equipment installed in the cabinet system that has a screw-based connection to the frame will not need any additional grounding, e.g. installation frames for EP, IVS, Profi Plus mounting struts, ... And it is not necessary either to ground the cover frame separately. Here too, the screw-based mechanical connection will do to provide the equipotential bonding.

However, if you install equipment such as mounting plates, hang-type Profi Plus fittings (with side mounting panel) or other equipment of no matter what finish they need to be connected to the grounding bar through the respective grounding connections.

5) Add-on equipment:

Add-on equipment such as base plinths need to be connected to the frame using the M8x22 screws and the suitable M8 toothed washers included in the scope of delivery. The M8 toothed washer penetrates the paint coating of the frame elements and thus establishes a permanently conductive connection between the frame structure and the base plinth.

Cross section of base plinth and frame



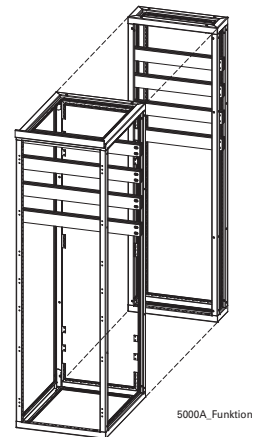
xEnergy Switchboards

How 5000 A systems work

General description of their way of working:

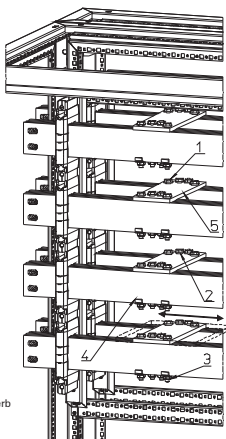
In order to connect 5000 A rated current to the main busbar in an xEnergy system, you need to add an extra frame of 200 mm section depth to a standard section of 800 mm depth. This measure applies to all options of the sections (XP, XF, XR, XW, XG).

The extra space is used to install the second main busbar track. This means that you need to install 2x (3x80x10) copper for the main busbar.



Current balancing connection for the main busbar:

For incoming supply/outgoing sections of 5000 A rated current (IZM63) you need to use special BAs (building instructions). With currents as high as that, the copper connections are guided from the switch over both tracks of the main busbar. So you do not need a special current balancing connection between the copper tracks.

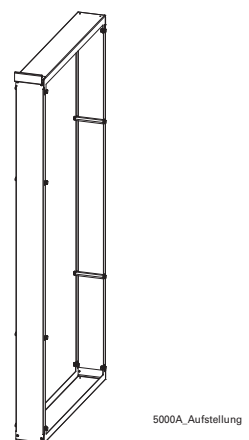


For incoming supply/outgoing sections up to a max. rated current of 5000 A, i.e. with XF, XR, XW, XG outgoing sections, you can use the standard BAs (building instructions). In addition, you will have to install a current balancing connection between the two copper tracks of the main busbar in the above-mentioned section types (see fig.). These balancing connections can be placed anywhere on the main busbar tracks (depending on the different space conditions which vary according to the type of section and amperage used in each case).

Installation and assembly:

With 5000 A systems, a clearance of 700 mm is compulsory between the rear of the system and the wall of the distribution room. You will need this space to establish the electrical connections during installation and assembly, and later on to ensure access from the rear for service jobs on the main busbar system.

To make final on-site assembly work easier, you need to install a 150mm wide mounting frame between the sections. The front of this "intermediate frame" is easy to take off, so you can work directly on the screw connections of the connection flaps, from the front, on the front track of the main busbar. To connect the rear track, you need to take off the rear part of the "intermediate frame" so you can easily tighten/fix the rear transport separation of the rear main busbar.



xEnergy Switchboards

XP Power sections for circuit breakers up to 5000 A

	Functional areas	Connection area	Busbar systems	Switchgear area 2
Busbar at the rear				<p>Mounting plates</p>
Busbar at the top		<p>Central incoming supply up to 4000 A: Cable connection system: drill-free connection across the entire section width, contacting from the front by means of connection terminals (brace terminals)</p>		

Switchgear area 1

Switchgear area 2

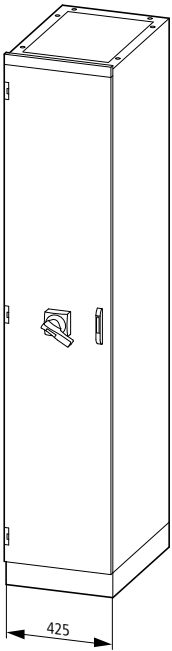
Connection area

Busbars

Additional busbar area where 5000 A are used

xEnergy Switchboards

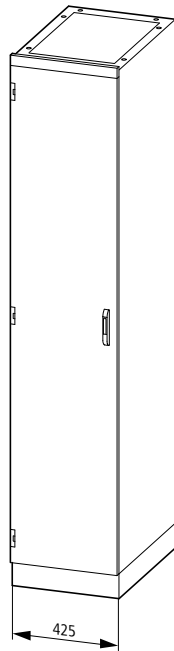
XP Power sections for circuit breakers up to 1600 A



00160782_0

425
(600, 800)

Section widths of 425 mm and 600 mm,
internal separation up to Form 2



00160792_0

425
(600, 800)

For compact circuit breakers NZM3/4:

- in withdrawable or fixed design
- in 3-pole or 4-pole version
- as incoming, outgoing or coupling switchgear or - with the busbar at the top - as an outgoing or incoming switchgear only
- for measuring purposes you can mount current transformers between the connection and the switchgear
- 2 devices possible in 1 section in Form 4

Dimensions

- Section widths of 425, 600 or 800 mm
- Section height 2000 mm, optional with plinth of 100 or 200 mm
- Section depth 600 or 800 mm; section depth 800 mm only with rear-mounted busbar

Connection area

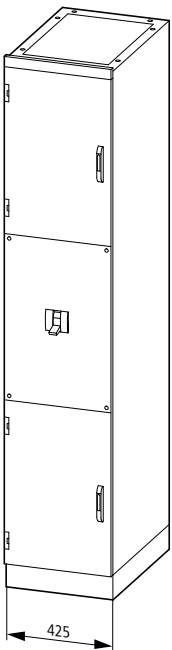
- to cover up the connection copper you will need the connection area cover XKSA
- connection directly to a flag connector or to tunnel-type terminals

With internal separation of Form 1 up to Form 2:

- with a front door as high as the cabinet
- doors ventilated, closed or transparent
- with doors right or left-hinged
- operation of the switch behind the door or with an extension shaft and the rotary door coupling handle from outside

With internal separation up to Form 4:

- 2 switchgear area doors, one above and one below the device, as well as a cover strip with quick-acting closures in the centre in front of the device
- switchgear to be operated from outside
- doors ventilated or closed
- with doors right or left-hinged
- areas not used for cable connection may be used for accommodating additional equipment, e.g. controlgear or surge protection devices



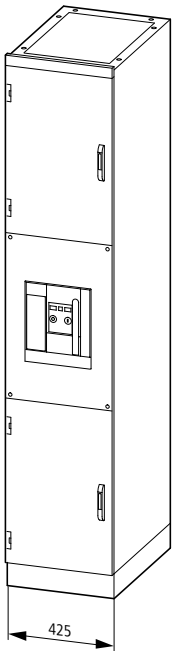
00160764_0

425
(600, 800)

Section widths of 425 mm, 600 mm and 800 mm,
internal separation up to Form 4

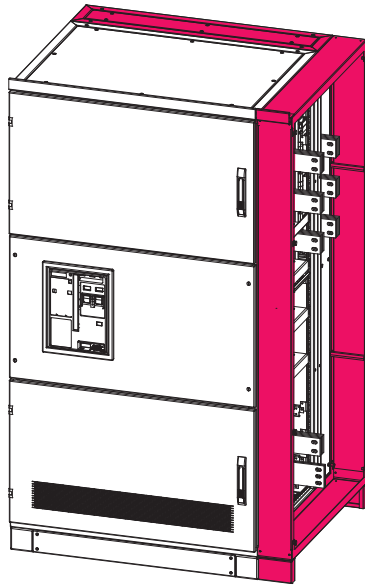
xEnergy Switchboards

XP Power sections for circuit breakers up to 5000 A



00160802_0

Section widths from 600 up to 1200 mm, internal separation up to Form 4



Kat_5000_LF_1

For 5000 A, the red-coloured parts are required in addition.

For air circuit breakers IZM and IZMX:

- in withdrawable or fixed design
- in 3-pole or 4-pole version
- as an incoming, outgoing or coupling switchgear or - with a top-mounted busbar - as an outgoing or incoming switchgear only
- for measuring purposes you can mount current transformers between the connection and the switchgear

For 5000 A

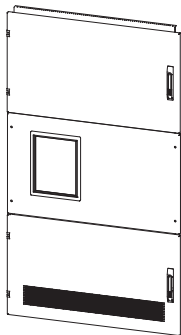
- for 5000 A, you need to use 2x(3x 80/10 Cu)
- for a 5000 A main busbar, you always have to add an additional frame of 200 mm depth at the back of an 800 mm deep section to create the space necessary for the second main busbar
- in order to provide a connection between 2 sections (section/section), using an add-on frame of 150 mm width is compulsory

Dimensions

- section widths of 425, 600, 800, 1000, 1100, 1200 or 1350 mm
- section height of 2000 mm, optionally with a plinth of 100 or 200 mm
- section depths of 600 or 800 mm; section depth of 800 mm only with rear-mounted busbar
- rated current I_b 5000 A = section depths is 1000 (800 + 200) mm

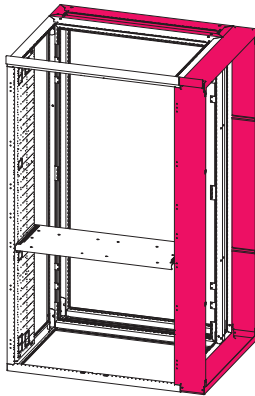
Connection area

- incoming supply lines from the top or from below; with top-mounted busbars incoming supply lines only possible from below
- connection directly to cable connector flags or
- drill-free connection to cable connection system over the total width accessible from the front

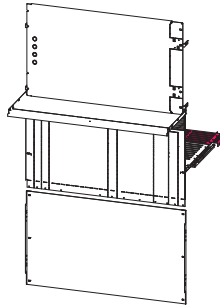


Kat_5000_LF_4

Base



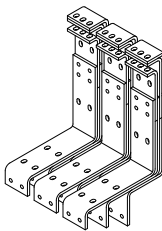
For 5000 A, the red-coloured parts are required in addition.



Internal separation up to Form 4

Internal separation from Form 1 up to Form 4:

- partition panels ready-to-fit for section equipment up to Form 4
- 2 switchgear area doors one on top and one below the device, as well as a cover with quick-acting locks (or with hinges at the center in front of the device) with IZMX16/40 and IZM26
- switchgear to be operated from outside
- doors ventilated or closed
- doors right or left-hinged
- areas not used for cable connection can be used to accommodate additional equipment, eg. controlgear or surge protection devices

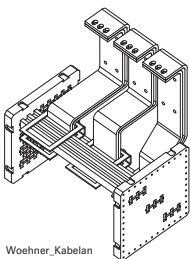


00160822_0

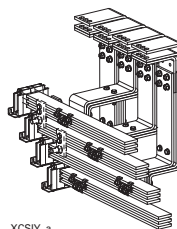
Direct cable connection

Central connection system up to 4000 A:

Cable connection system: drill-free connection over the total width of the section accessible from the front via feeder clip



Woehner_Kabelan



XCSIY_a

Cable connection system: drill-free connection over the total width of the section accessible from the front (typ: KCSIY)

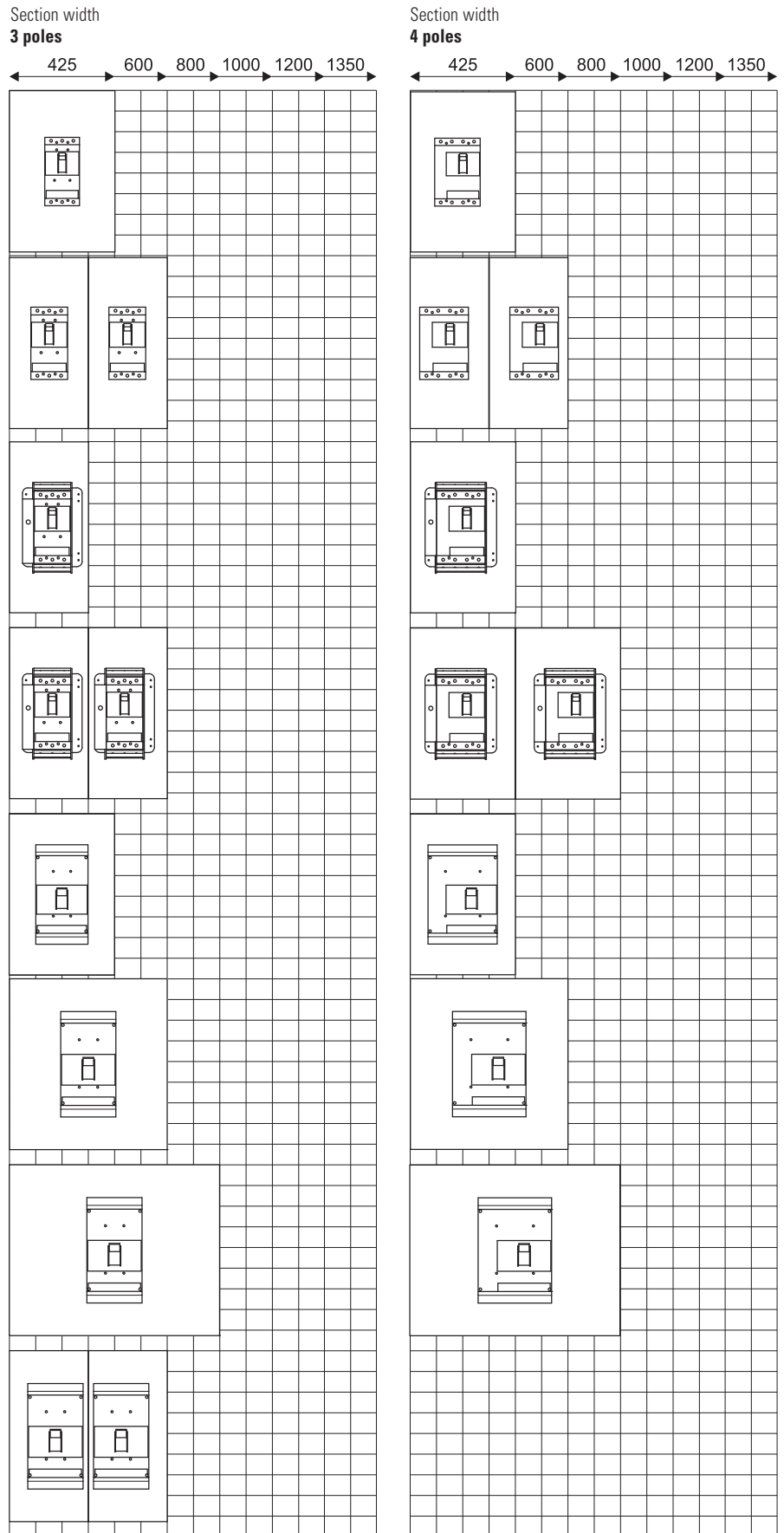
xEnergy Switchboards

xP Power sections - type of switchgear installation and section width for NZM

Compact circuit breaker
Type NZM3, fixed

Compact circuit breaker
Type NZM3, withdrawable

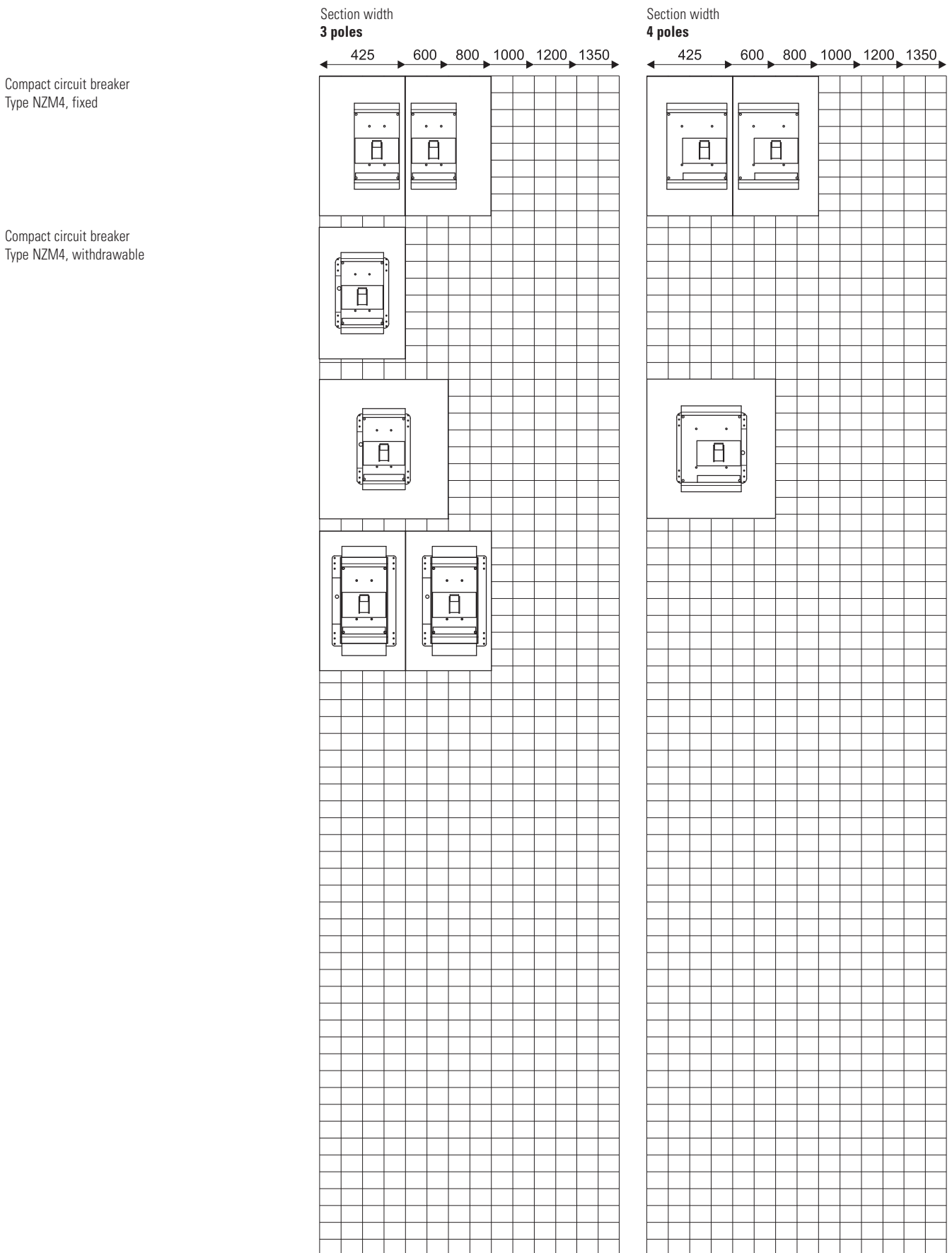
Compact circuit breaker
Type NZM4, fixed



fk4810-1143d_13_07_1a

xEnergy Switchboards

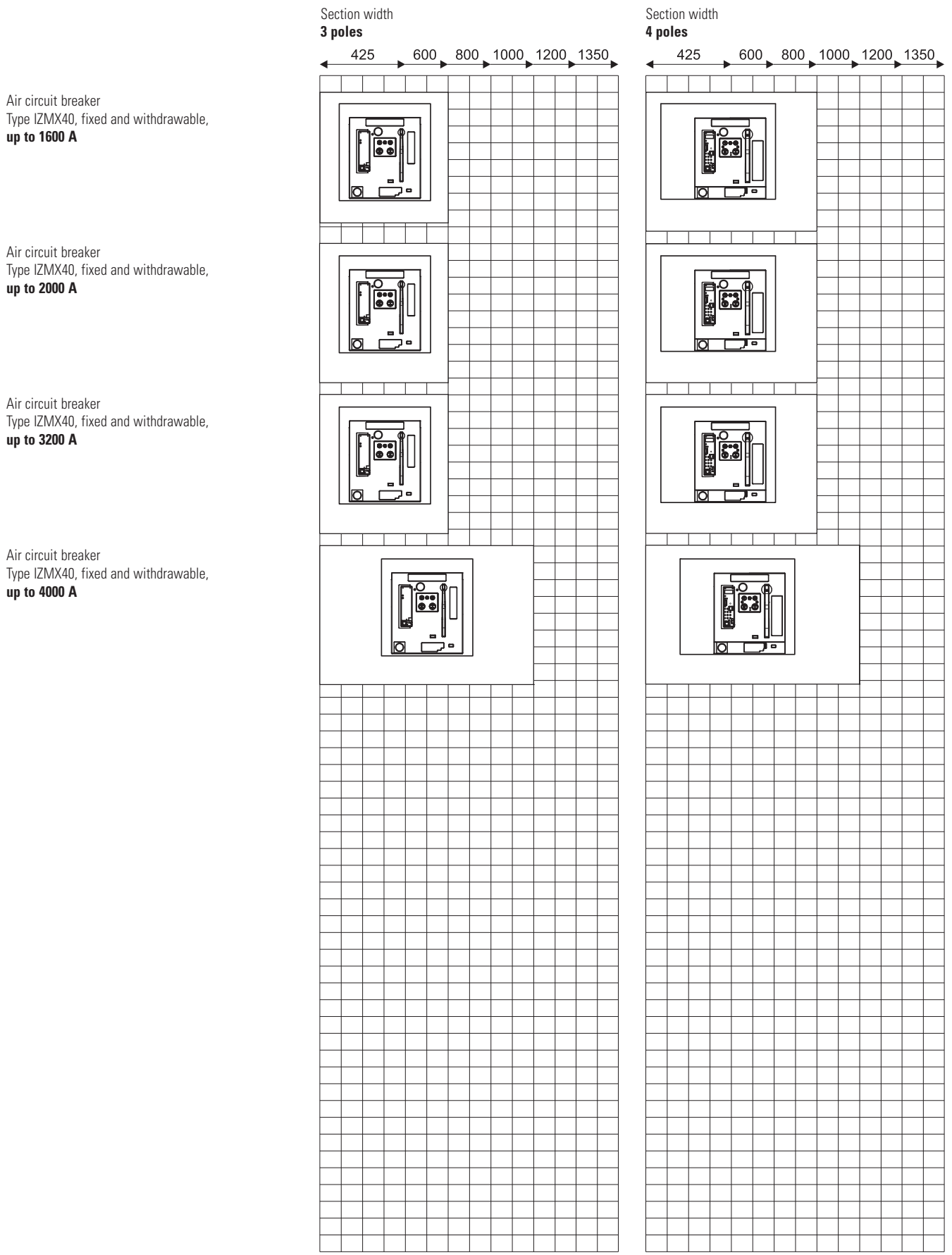
XP Power sections - type of switchgear installation and section width for NZM



fk4810-1143d_13_07_1b

xEnergy Switchboards

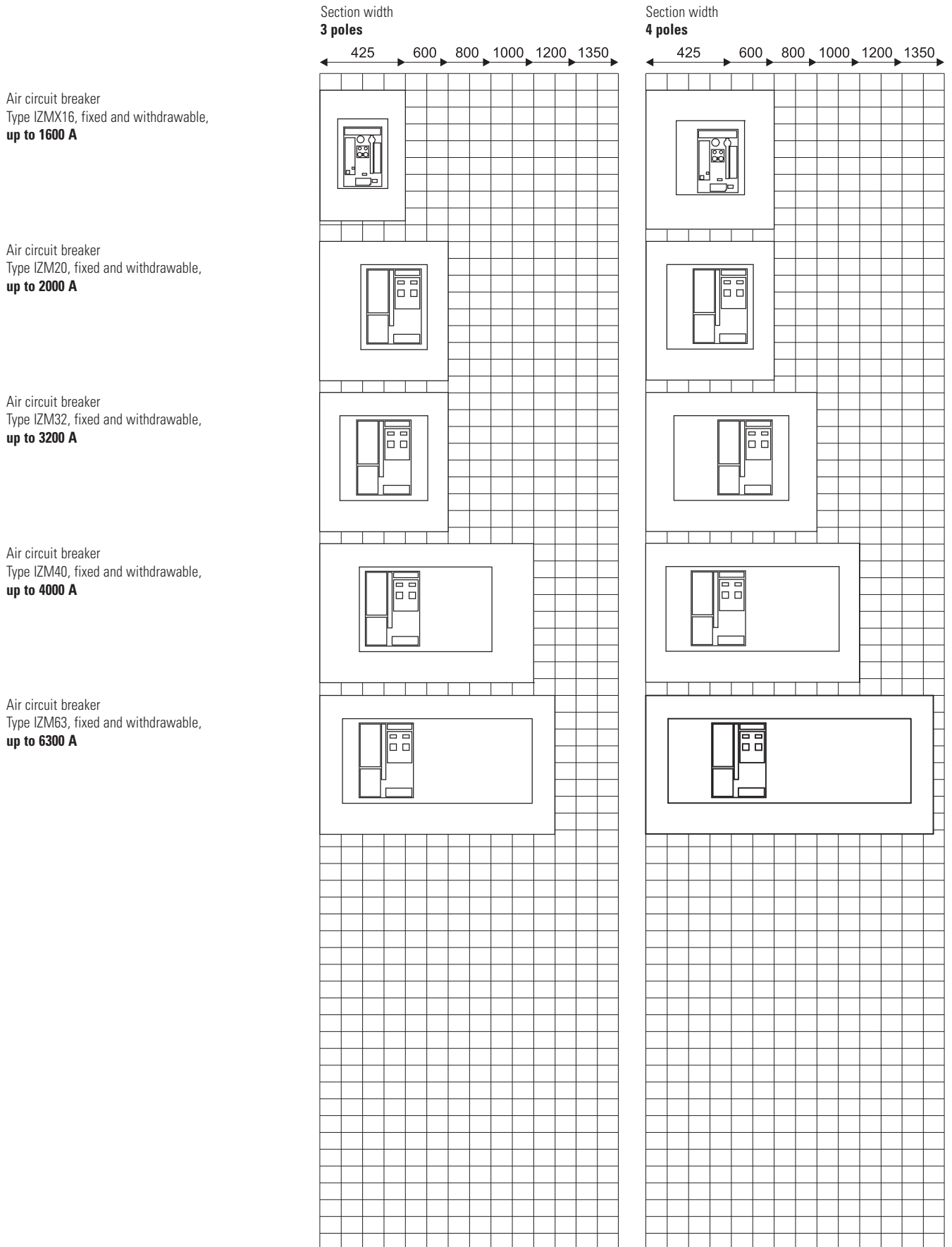
XP Power sections - type of switchgear installation and section width for IZMX40



fk4810-1143d_13_07_1c_IZMX40

xEnergy Switchboards

XP Power sections - type of switchgear installation and section width for IZMX16/IZM20/32/40/63



fk4810-1143d_13_07_1c

xEnergy Switchboards

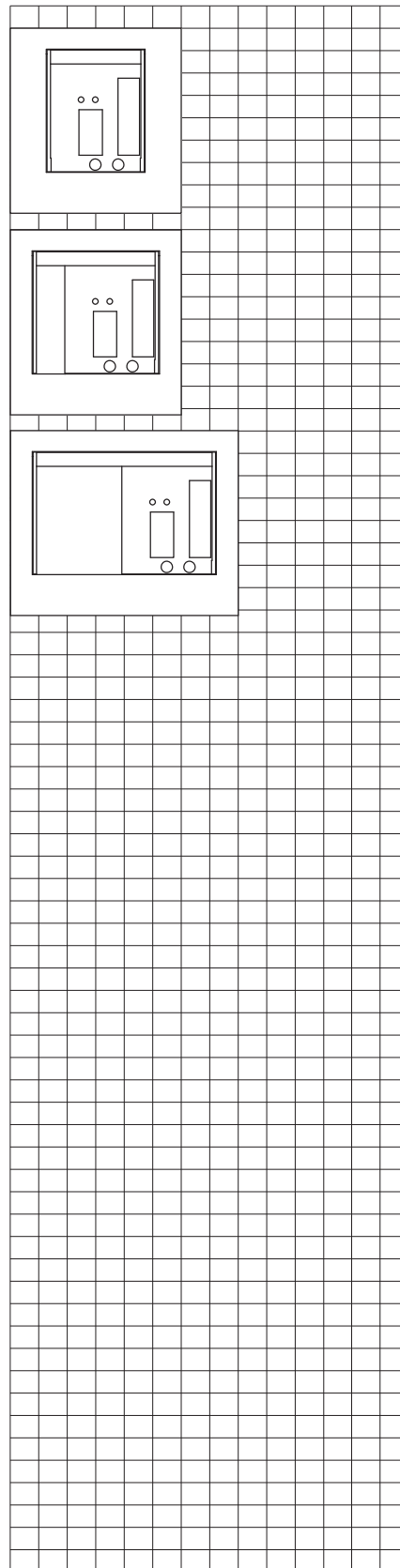
XP Power sections - type of switchgear installation and section width for IZM58

Air circuit breaker
Type IZM58, fixed and withdrawable,
up to 1600 A

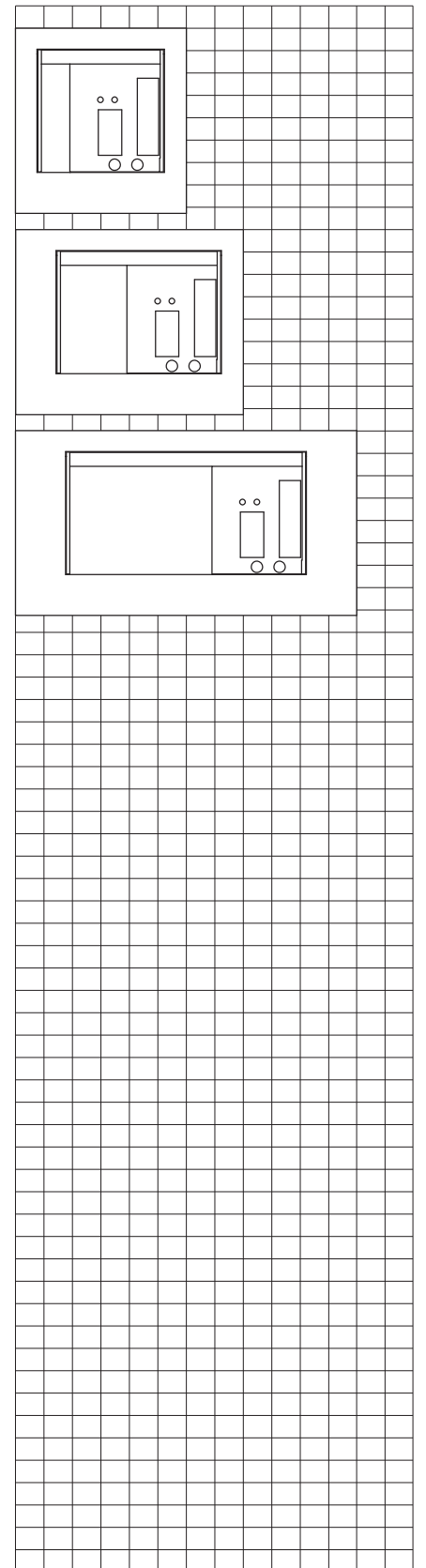
Air circuit breaker
Type IZM58, fixed and withdrawable,
up to 3200 A

Air circuit breaker
Type IZM58, fixed and withdrawable,
up to 4000 A

Section width
3 poles
← 425 → 600 → 800 → 1000 → 1200 → 1350 →



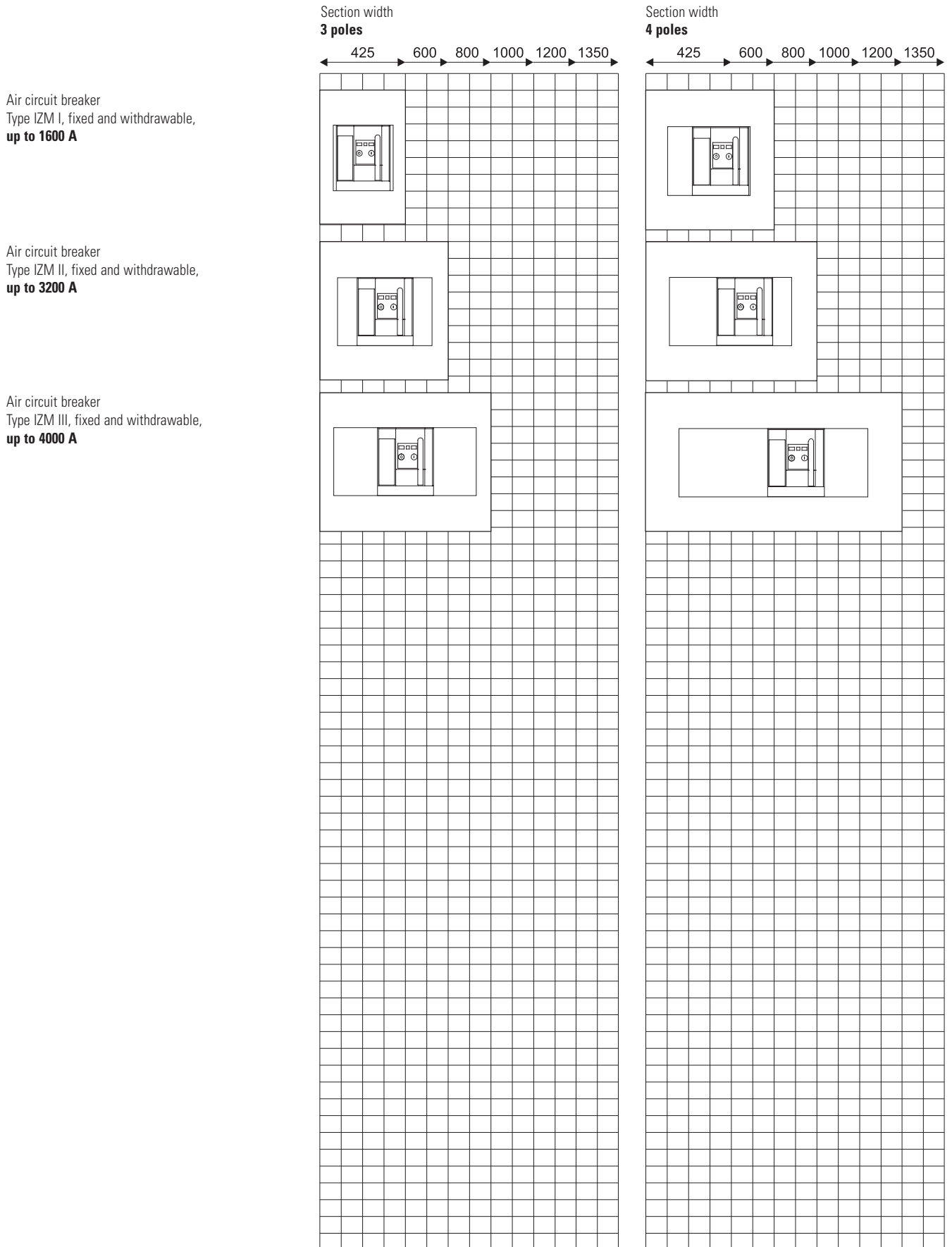
Section width
4 poles
← 425 → 600 → 800 → 1000 → 1200 → 1350 →



fk4810-1143d_13_07_1d

xEnergy Switchboards

XP Power sections - type of switchgear installation and section width for IZM13



fk4810-1143d_13_07_1e

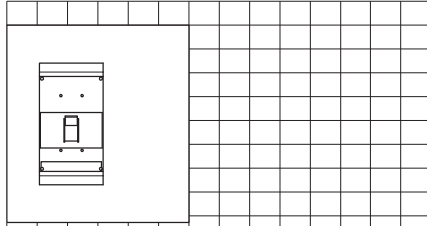
xEnergy Switchboards

XP Power sections - type of switchgear installation and section width for NZM (UK)

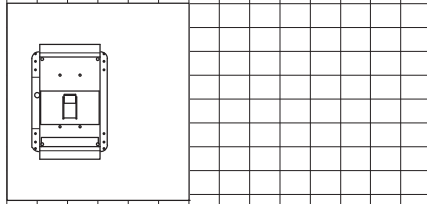
Section width
3/N poles

← 425 → 600 → 800 → 1000 → 1200 → 1350 →

Compact circuit breaker
Type NZM4, fixed,
UK



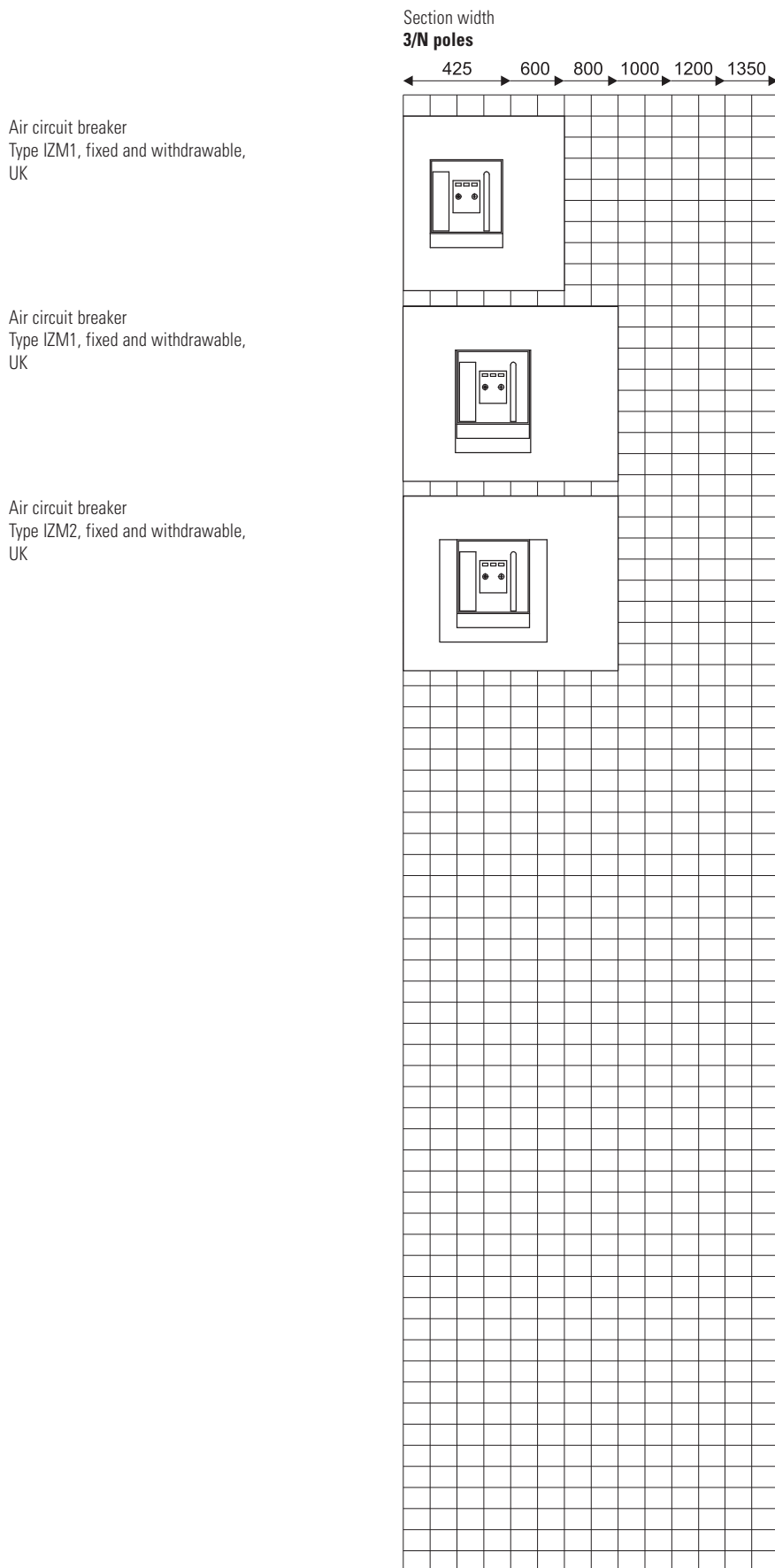
Compact circuit breaker
Type NZM4, withdrawable,
UK



fk4810-1143d_13_07_1f

xEnergy Switchboards

XP Power sections - type of switchgear installation and section width for IZM13 (UK)

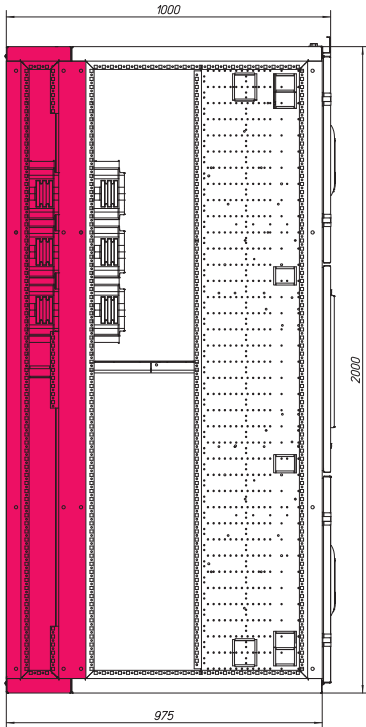


fk4810-1143d_13_07_1g

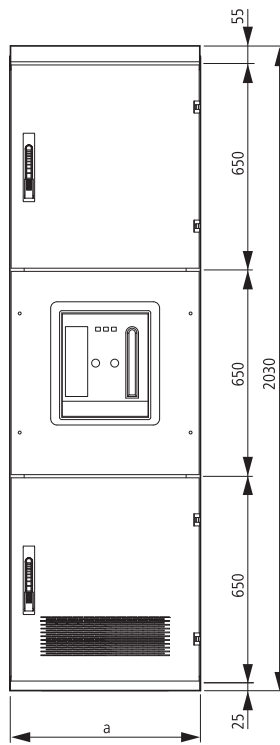
xEnergy Switchboards

Dimensions - XP Power sections

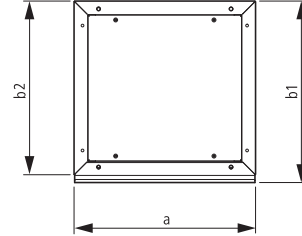
XP section with incorporation of IZM circuit breakers XSMIB20



00162398_0



00162118_0



00162219_0

b1	b2
600	575
800	775
1000 (800+200)	975

a
425
600
800
850
1000
1100
1200
1350

For 5000 A, the red-coloured parts are required in addition.

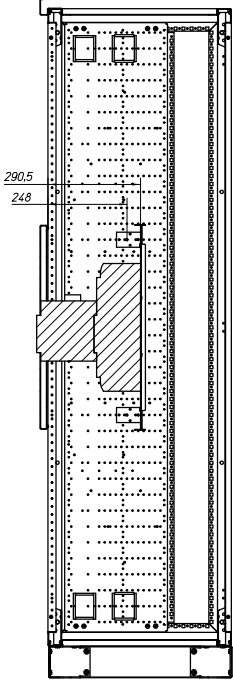
xEnergy Switchboards

Dimensions - XP Power sections

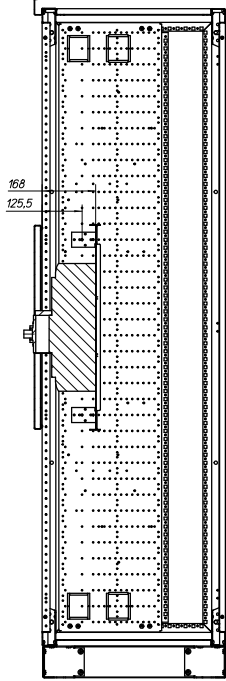
XP section with incorporation of NZM3/4 circuit breakers

XMN3..., XMN4...

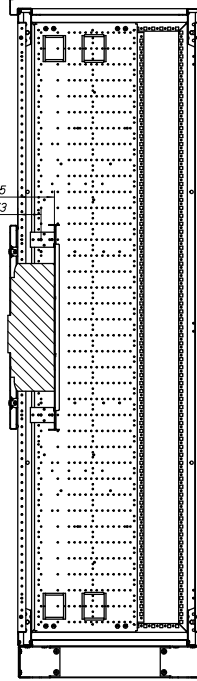
NZM4 Fixed Motor
XMN4xxx



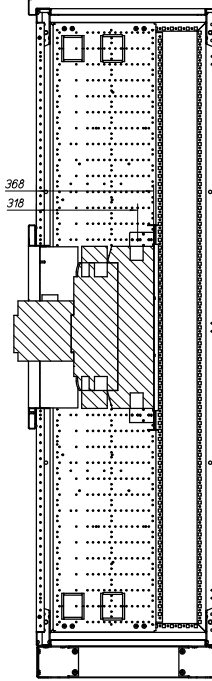
NZM4 Fixed Rotary Handle
XMN4xxx



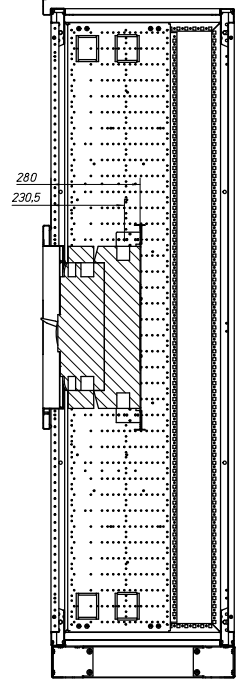
NZM4 Fixed
XMN4xxx



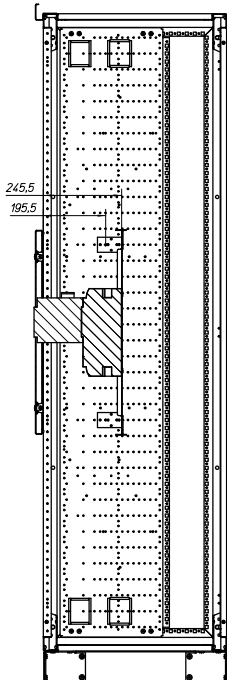
NZM4 Withdrawable Motor
XMN4xxx-2



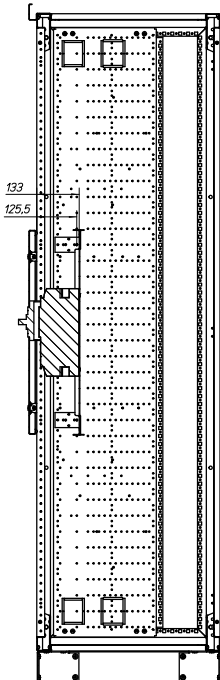
NZM4 Withdrawable
XMN4xxx-1



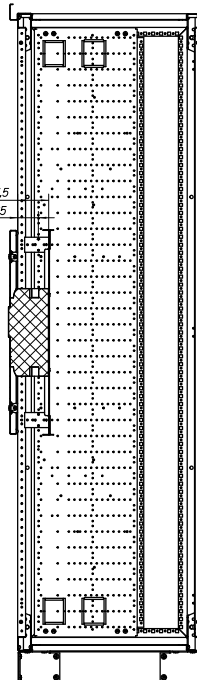
NZM3 Fixed Motor
XMN3304



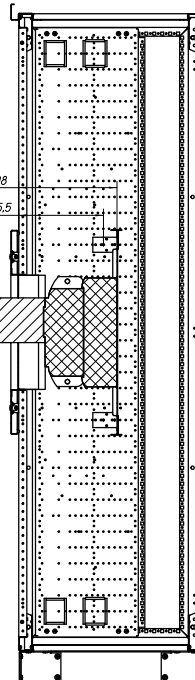
NZM3 Fixed Rotary Handle
XMN3304



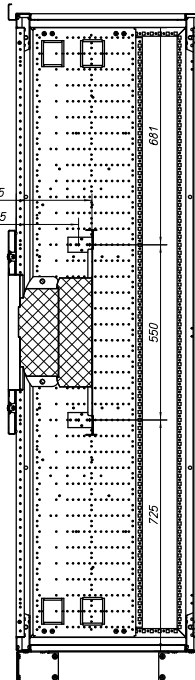
NZM3 Fixed
XMN3304



NZM3 Withdrawable Motor
XMN3304-2



NZM3 Withdrawable
XMN3304-1



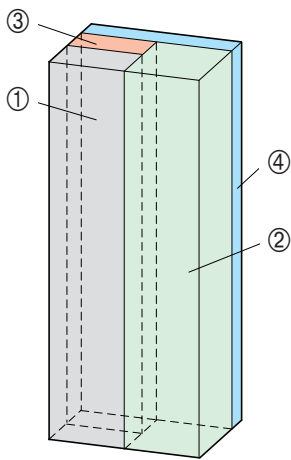
NZM_seitenansicht

xEnergy Switchboards

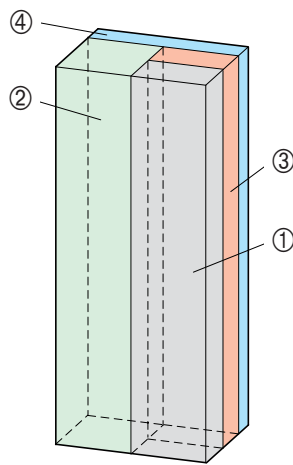
XF Outgoing sections for fixed modules

Functional areas

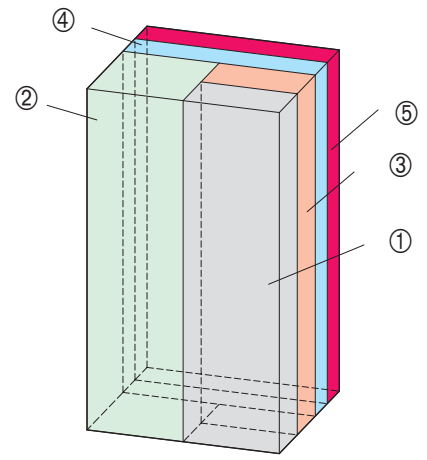
Busbar rear-mounted



00156267_0

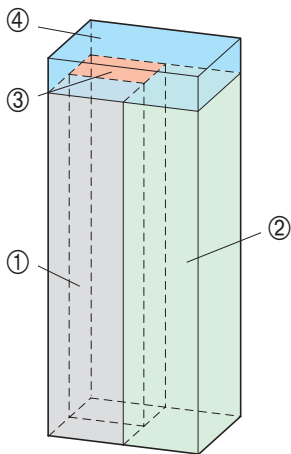


00155856_0

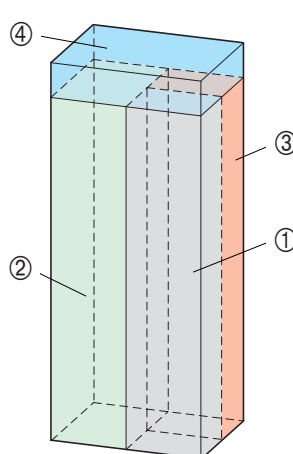


Kat_5000_funks_r

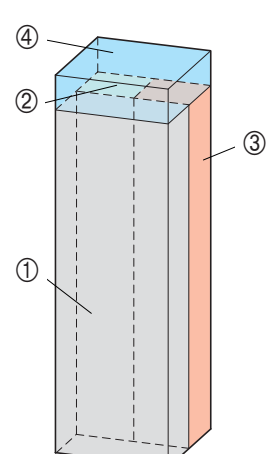
Busbar top-mounted



00155866_0



00155876_0



00155886_0

1 Switchgear area

3 Dropper bars

5 Additional main busbar field for 5000 A

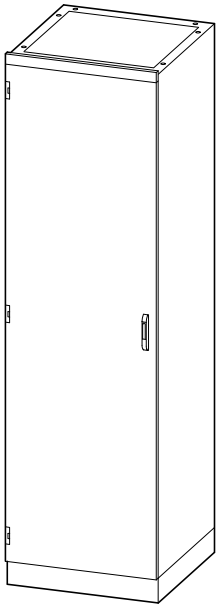
2 Cable connection area

4 Main busbars

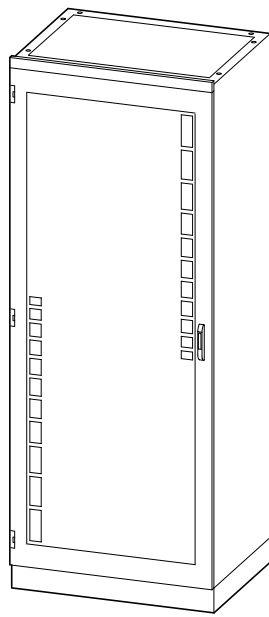
xEnergy Switchboards

XF Outgoing sections for fixed modules up to 630 A, Form 2

Form 2

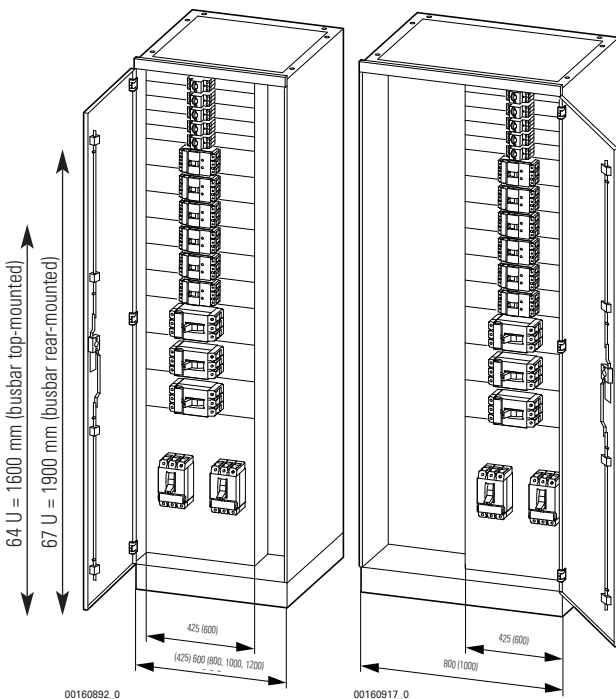


00155896_0



00160863_0

Section widths of 600, 800 or 1000 mm, with door either closed or transparent



00160892_0

00160917_0

Cable connection area in different installation positions for widths of 200 and 400 mm.

- for **circuit breakers**, motor starters, miniature circuit breakers and fuse switch disconnectors
- **in horizontal and vertical position**
- Installation of the switchgear **on one mounting level** on mounting plates in the widths of 425 or 600 mm
- internal separation up to Form 2
- connection on the incoming side is provided for through a vertically arranged dropper bar system, covered to be touch-proof (through mounting plates).
- cable connection is provided for on the side, in the right or left part of the distributor section
- with a front door as high as the cabinet, ventilated, closed or transparent, door right or left-hinged
- switchgear to be operated behind the door or with an extension shaft and a rotary door coupling handle from outside

Horizontally fixed circuit breaker

	Module height (U/mm)	
	3 poles	4 poles
25 A	2/50	-
40 A	4/100	4/100
63 A	4/100	-
160 A	4/100	6/150
300 A	6/150	8/200
630 A	8/200 ¹⁾	10/250 ¹⁾

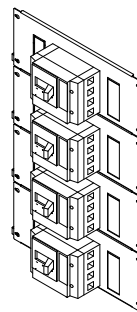
¹⁾ Horizontal installation of NZM3 (up to 630 A) only on modules of 600 mm width

Vertically fixed circuit breaker

	Module height ¹⁾ (U/mm)	Number of circuit breakers per module	
		425 mm	600 mm
160 A	12/300	2	3
300 A	16/400	2/1 ²⁾	3/2 ²⁾
630 A	24/600	1	2/1 ²⁾

¹⁾ Vertical installation of the switchgear preferably at the top/bottom of the section, depending on the cable insertion. In case of vertical installation it may be necessary to provide more height units for cable insertion.

²⁾ 4 poles



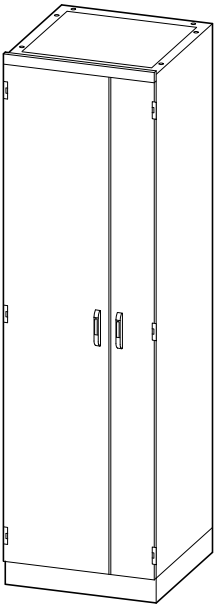
00160917_0

Installation of switchgear on pre-drilled mounting plates, with all fixing and connection openings prepared for installation.

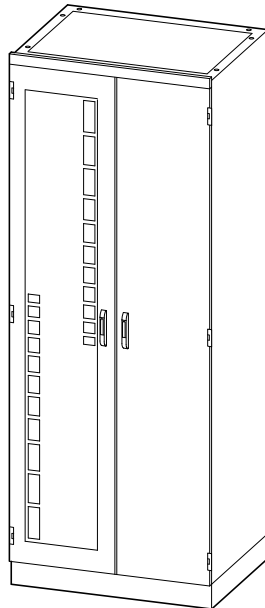
xEnergy Switchboards

XF Outgoing sections for fixed modules up to 630 A, Form 4

Form 4



00160934_0

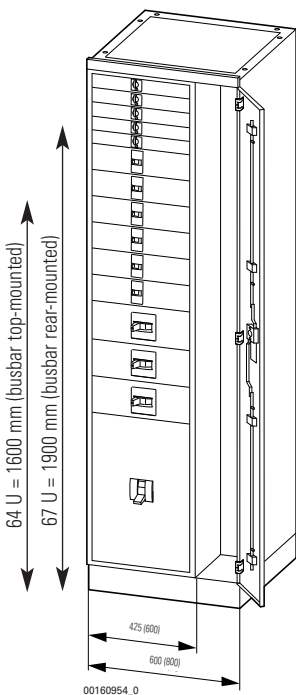


00160944_0

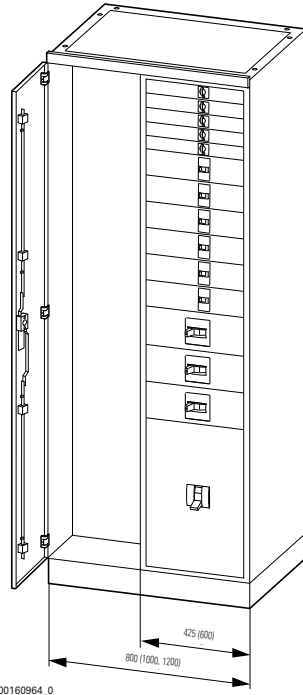
Section widths of 600, 800 or 1000 mm, with closed or transparent door

- for **circuit breakers**, motor starters, miniature circuit breakers and fuse switch disconnectors
- **in horizontal and vertical position**
- the switchgear will be installed **behind module covers** and are positioned **on one operating level**
- the module covers are provided with hinges; they can be turned which provides individual access to each module
- Mounting plates in the widths of 425 or 600 mm
- installation of internal separations up to Form 4¹⁾
- connection on the incoming side is provided for on a vertically arranged dropper bar system, covered to be touch-proof
- cable connection is provided for on the side, in the right or left part of the distributor section
- the connection area can be accessed via a separate door to the cable connection area and can be separated from busbars and switchgear area
- switchgear to be operated from outside, via cut-outs in the module covers
- can optionally be equipped with a front door as high as the cabinet, ventilated, closed or transparent, with right or left door hinges

¹⁾ It may be necessary to provide for more terminals.

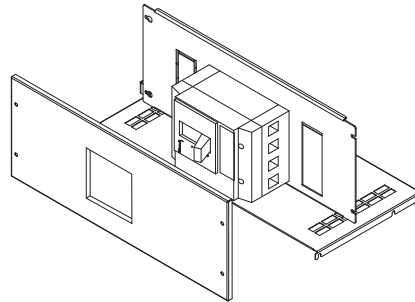


00160954_0



00160964_0

Cable connection area in different installation positions in the widths of 200 and 400 mm.



00122777_0

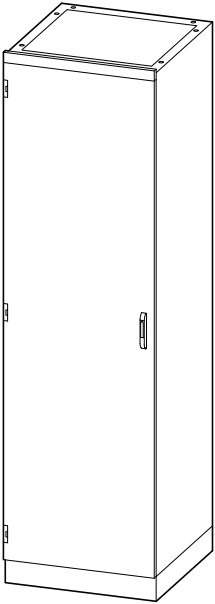
Installation of switchgear on pre-drilled mounting plates, with all fixing and connection openings prepared for installation. Swivel-mounted front cover comes with cut-out for operating the lever from outside.

xEnergy Switchboards

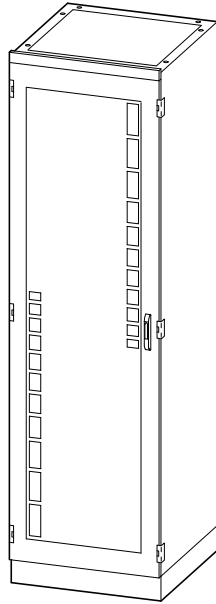
XF Outgoing sections for fixed modules up to 630 A, Form 4

Form 4

For cable connection at the rear



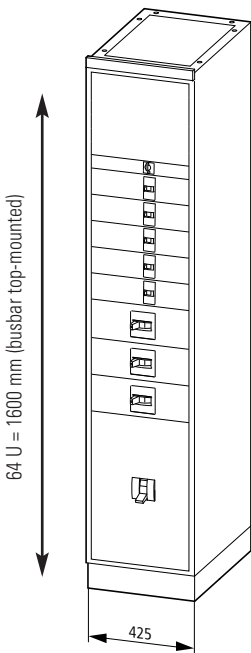
00155896_0



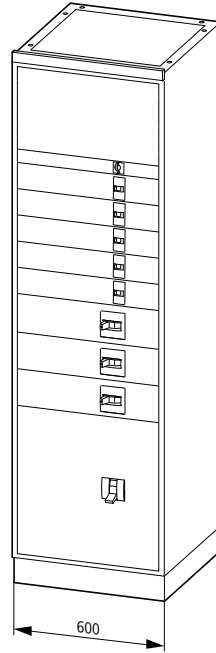
00155906_0

Section widths of 425 or 600 mm, with closed or transparent door

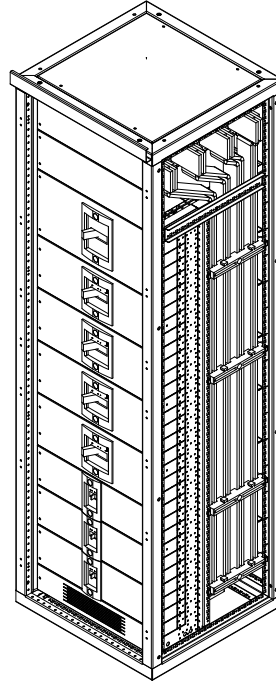
- for circuit breakers, motor starters and miniature circuit breakers
- **in horizontal and vertical position**
- the switchgear will be installed **behind module covers** and positioned **on one operating level**
- the module covers come with hinges; they can be turned which provides individual access to each module
- mounting plates in the widths of 425 or 600 mm
- connection on the incoming side is provided on a vertically arranged dropper bar system, covered so as to be touch-proof
- the cable connection area is at the left rear side, cable connection is done from the rear
- installation of internal separations up to Form 4
- switchgear to be operated from outside, via cut-outs in the module covers
- can optionally be equipped with a front door as high as the cabinet, ventilated, closed or transparent, with right or left door hinges
- only suitable for top-mounted busbars



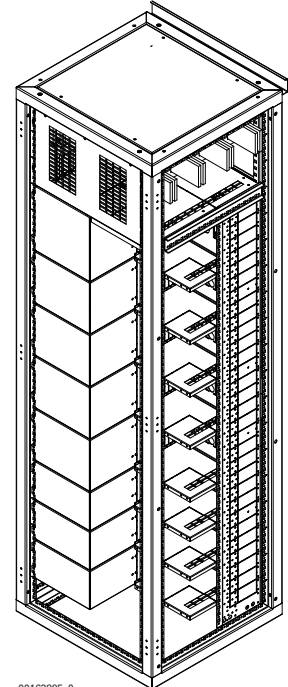
00155916_0



00155926_0



00163962_0

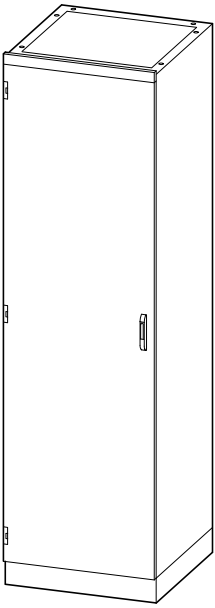


00163895_0

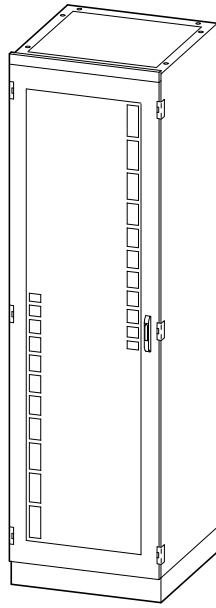
Cable connection from the rear reduces the section width.
Distributor must be accessible from the rear.

xEnergy Switchboards

XF Outgoing sections without dropper bar for fixed modules up to 630 A



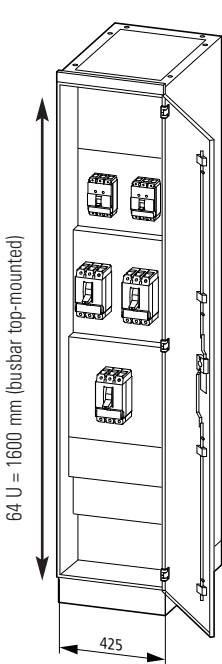
00155896_0



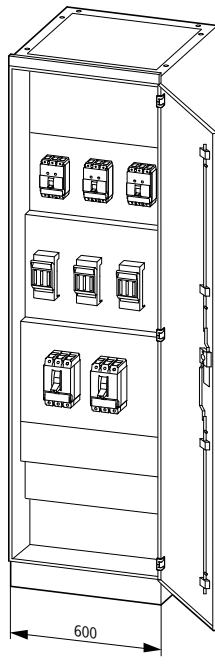
00155906_0

- for **circuit breakers** and miniature circuit breakers
- **in vertical position**
- the switchgear are vertically mounted on mounting plates and can be mounted with an offset at any depth
- mounting plates available in widths of 425, 600, 800 or 1000 mm
- connection on the incoming side is directly on the main busbar
- main busbars can be covered so as to be touch-proof
- cable connection is done from below, either directly with the switchgear or to terminals mounted in the lower part of the section
- with a front door as high as the cabinet, ventilated, closed or transparent, with door hinged at the right or left side
- switchgear operation behind the door or from outside with an extension shaft and a rotary door coupling handle
- fitting frames can be used for front panels
- can be completely closed with front panels

Section widths of 425, 600 mm, 800 and 1000 mm



00160974_0

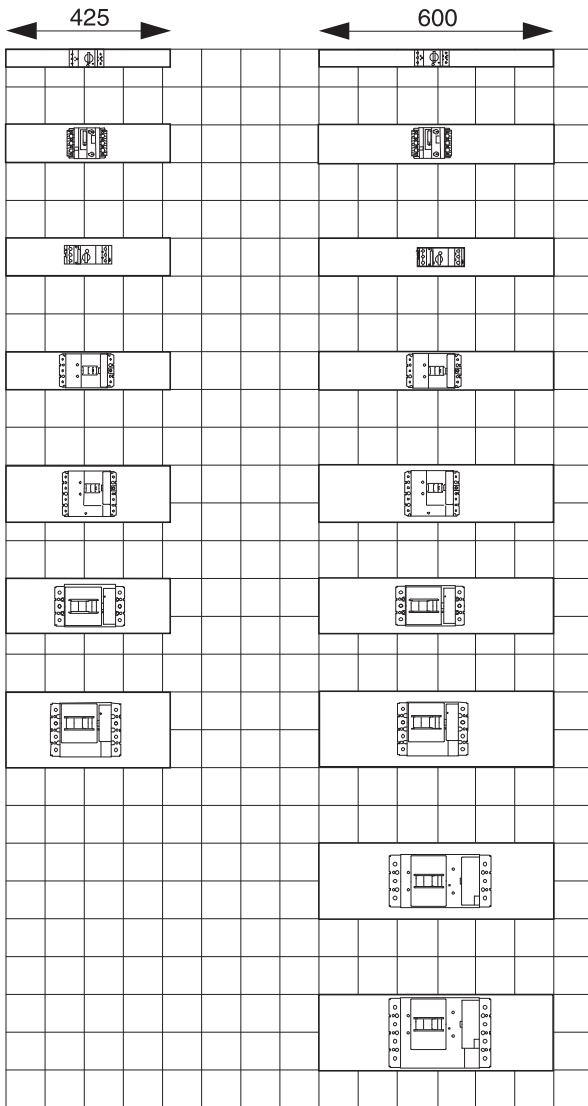


00160984_0

xEnergy Switchboards

XF Outgoing sections (fixed installation), module heights and components: Horizontal installation of switchgear

Module width



Motor-protective circuit breakers up to **32 A**
Type PKZM0, 2 U = 50 mm

Motor-protective circuit breakers up to **40 A**

Motor-protective circuit breakers up to **63 A**
Type PKZM4, 4 U = 100 mm

Circuit breakers up to **160 A, 3 poles**
Type NZM1, 4 U = 100 mm

Circuit breakers up to **160 A, 4 poles**
Type NZM1, 6 U = 150 mm

Circuit breakers up to **300 A, 3 poles**
Type NZM2, 6 U = 150 mm

Circuit breakers up to **300 A, 4 poles**
Type NZM2, 8 U = 200 mm

Circuit breakers up to **630 A, 3 poles**
Type NZM3, 8 U = 200 mm

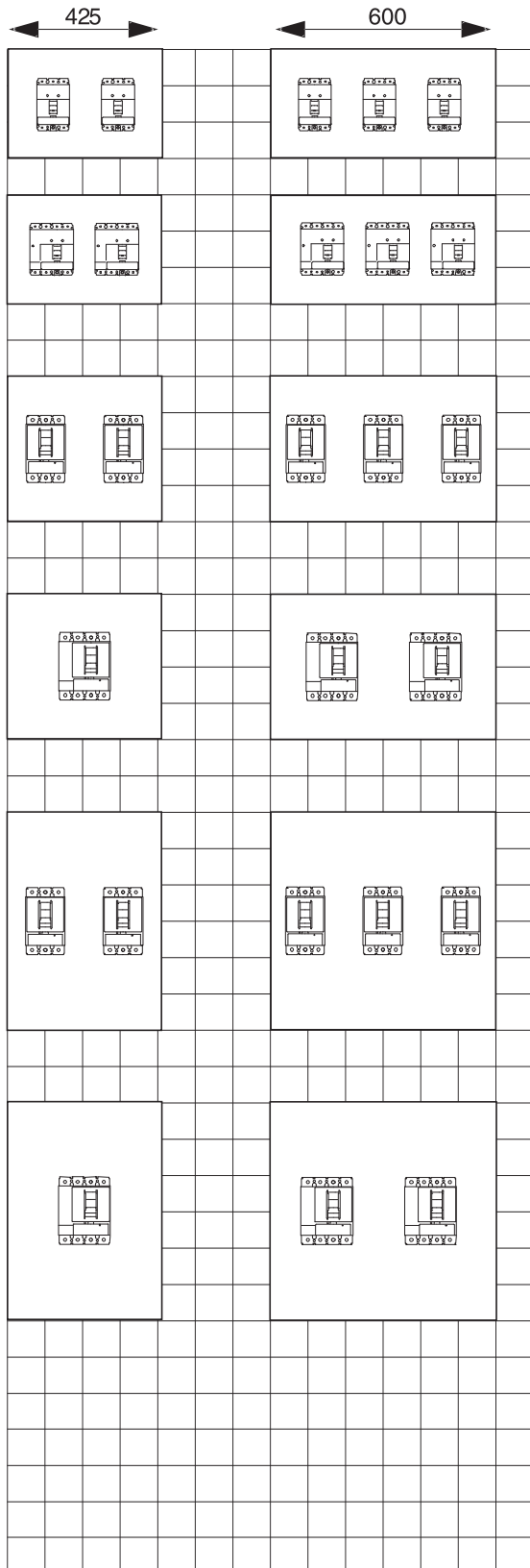
Circuit breakers up to **630 A, 4 poles**
Type NZM3, 10 U = 250 mm

fk4810-1143d_13_13_1A4

xEnergy Switchboards

XF Outgoing sections (fixed installation), module heights and components: Vertical installation of switchgear

Module width



Circuit breakers up to **160 A, 3 poles**
Type NZM1, 12 U = 300 mm

Circuit breakers up to **160 A, 4 poles**
Type NZM1 with plug-in module, 12 U = 300 mm

Circuit breakers up to **300 A, 3 poles**
Type NZM2, 16 U = 400 mm

Circuit breakers up to **300 A, 4 poles**
Type NZM2, 16 U = 400 mm

Circuit breakers up to **300 A, with plug base, 3 poles**
Type NZM2, 24 U = 600 mm

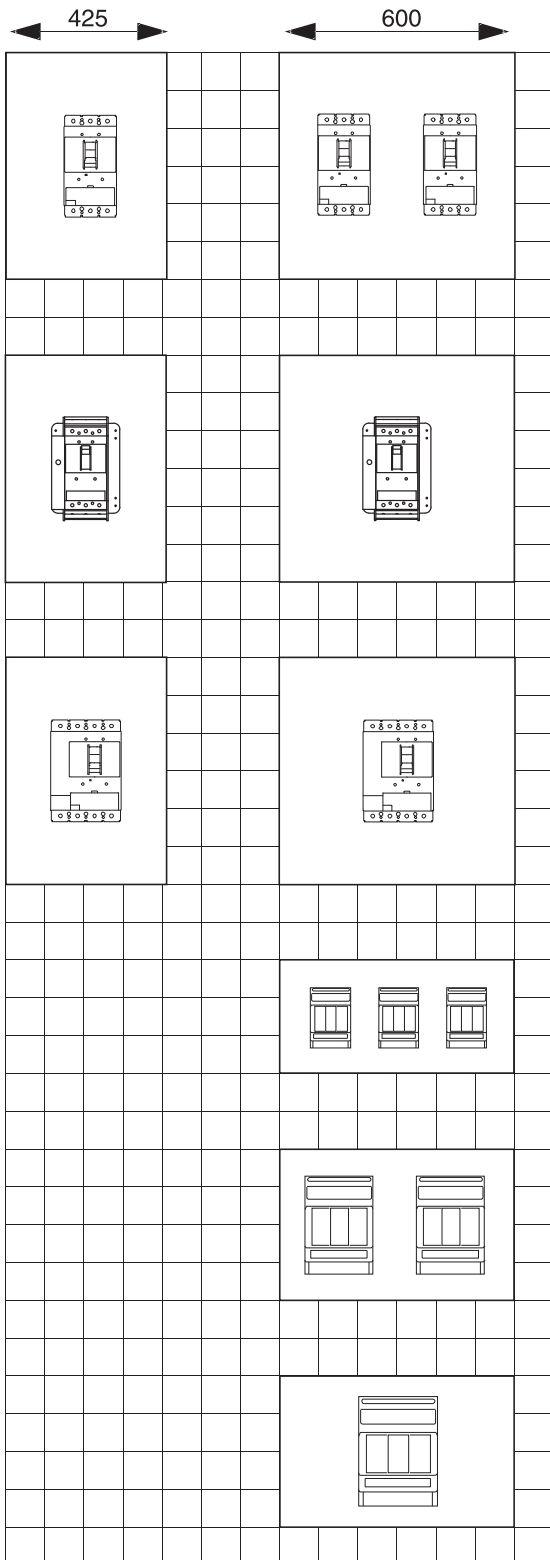
Circuit breakers up to **300 A, with plug base, 4 poles**
Type NZM2, 24 U = 600 mm

fk4810-1143d_13_14A4

xEnergy Switchboards

XF Outgoing sections (fixed installation), module heights and components: Vertical installation of switchgear

Module width



Circuit breakers up to **630 A, fixed, 3 poles**
Type NZM3, 24 U = 600 mm

Circuit breakers up to **630 A, with withdrawable unit, 3 poles**
Type NZM3, 24 U = 600 mm

Circuit breakers up to **630 A, fixed or with withdrawable unit, 4 poles**
Type NZM3, 24 U = 600 mm

Fuse base or fuse switch disconnectors up to **160 A, 3 poles**
Type GS1/GSTA1, 12 U = 300 mm

Fuse base or fuse switch disconnectors up to **250 A, 3 poles**
Type GS1/GSTA1, 16 U = 400 mm

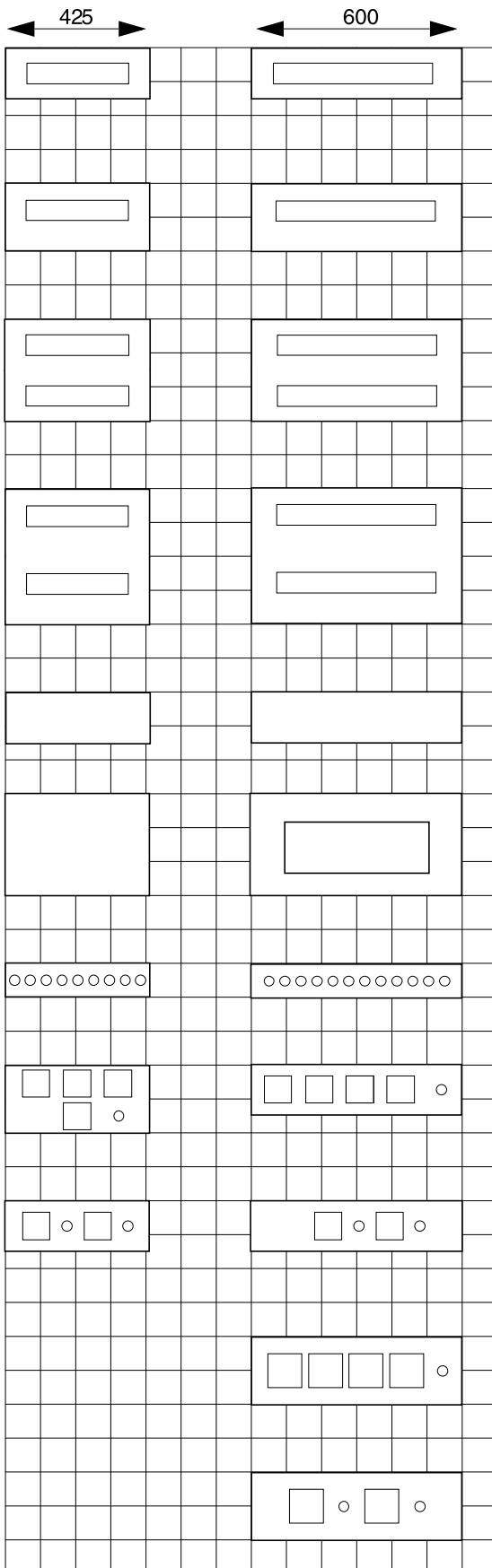
Fuse base or fuse switch disconnectors up to **400 A, 3 poles**
Type GS1/GSTA1, 16 U = 400 mm

Rk4810-1143d_13_15A4

xEnergy Switchboards

XF Outgoing sections module heights and components: Module covers for modular installation devices, measuring and command devices

Module width



Modular installation devices /PKZ...

1 x 12 PE/1 x 24 PE, 6 U = 150 mm

1 x 12 PE/1 x 24 PE, 8 U = 200

2 x 12 PE/2 x 24 PE, 12 U = 300 mm

2 x 12 PE/2 x 24 PE, 16 U = 400 mm

Modules for terminals

6 U = 150 mm

12 U = 300 mm

Front covers

for **command and signalling devices**

9 x RMQ-Titan/12 x RMQ-Titan, 4 U = 100 mm

for **installation of measuring devices**

4 x 72 x 72 mm + 1 changeover contact

8 HE = 200mm/6 U = 150 mm

2 x 72 x 72 mm + 2 changeover contacts

6 U = 150 mm

4 x 96 x 96 mm + 1 changeover contact

8 U = 200 mm

2 x 96 x 96 mm + 2 changeover contacts

8 U = 200 mm

fk4810-1143d_13_16A4

xEnergy Switchboards

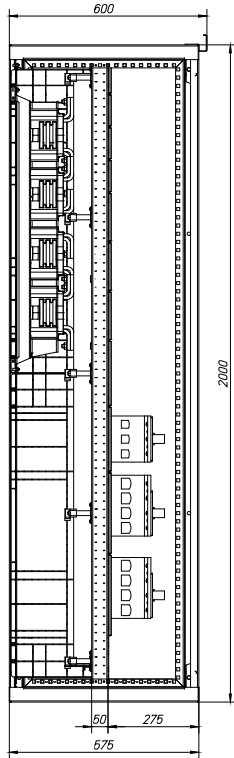
Dimensions - XF Outgoing sections

XF section with integrated NZM1-3 circuit breaker, Form 2, section depth of 600mm

XSMFIB0606 (type of fitting kit)

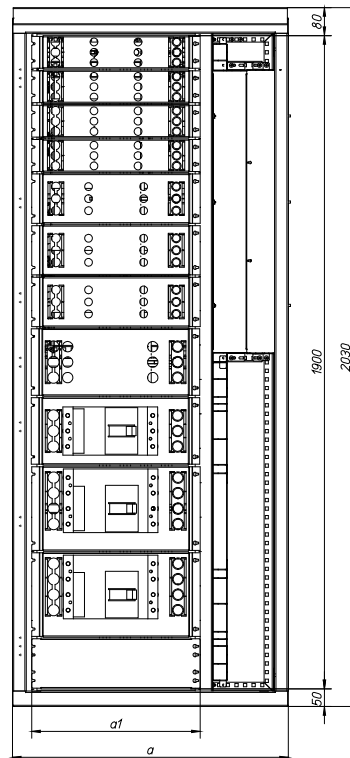
Fitting kit for modules/switchgear assemblies of up to 275 mm depth

Side view



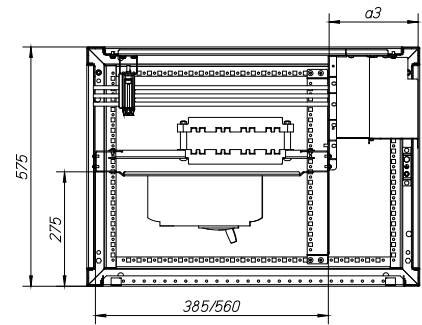
XF_NZM1_3_F2b_600_S

Front view



XF_NZM1_3_F2b_600_V

Top view



XF_NZM1_3_F2b_600_D

Form 2b, section depth = 600 mm

A = Section width	a1 = Module width	a3 = Width of cable area
600	314	190
800	314	390
800	489	215
1000	489	415
1200	489	615

xEnergy Switchboards

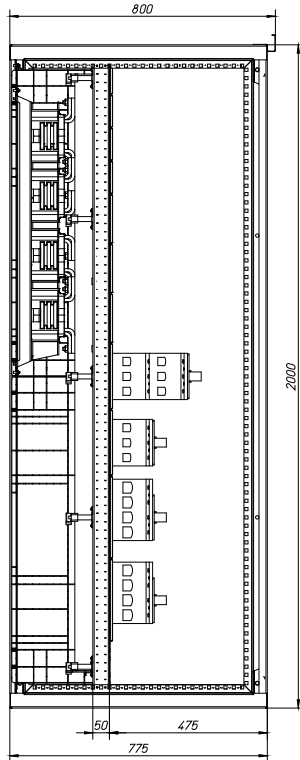
Dimensions - XF Outgoing sections

XF section with integrated NZM1-3 circuit breaker, Form 2, section depth of 800mm

XSMFIB0608 (type of fitting kit)

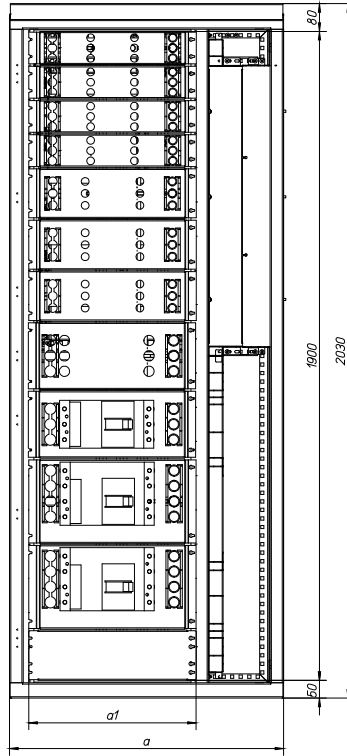
Fitting kit for modules/switchgear assemblies of up to 475 mm depth

Side view



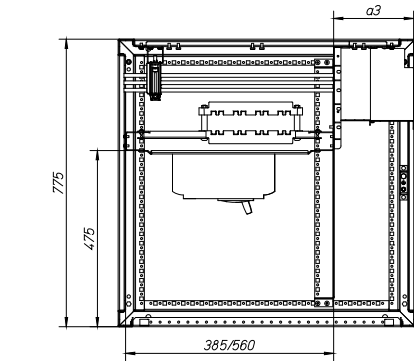
XF_NZM1_3_F2b_800_S

Front view



XF_NZM1_3_F2b_800_V

Top view



XF_NZM1_3_F2b_800_D

Form 2b, section depth = 800 mm

A = Section width	a1 = Module width	a3 = Width of cable area
600	314	190
800	314	390
800	489	215
1000	489	415
1200	489	615

xEnergy Switchboards

Dimensions - XF Outgoing sections

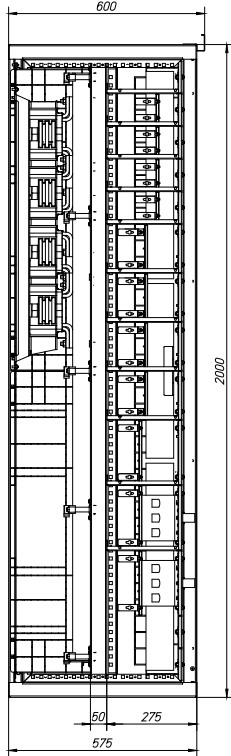
XF section with integrated NZM1-3 circuit breaker, Form 4, section depth of 600mm

XSMFDB(04)0606 (type of fitting kit)

Fitting kit for modules/switchgear assemblies of up to 220 mm depth

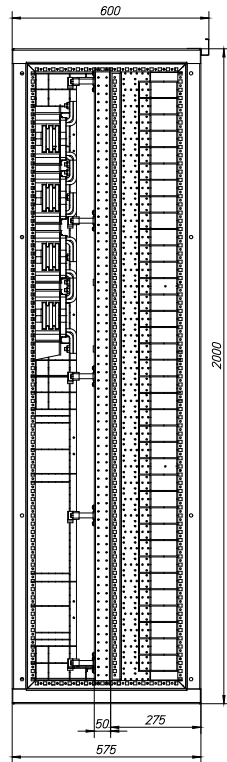
Side view

without side mounting panel



XF_NZM1_3_F4_600_S_oMS

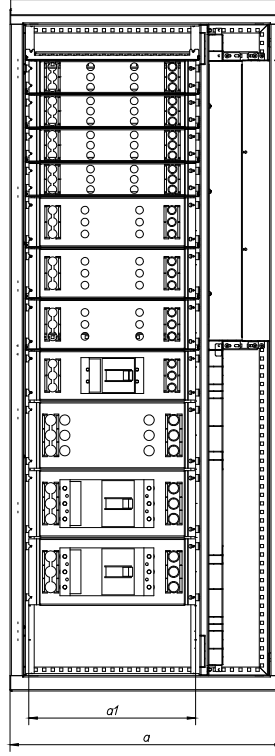
with side mounting panel



XF_NZM1_3_F4_600_S_mMS

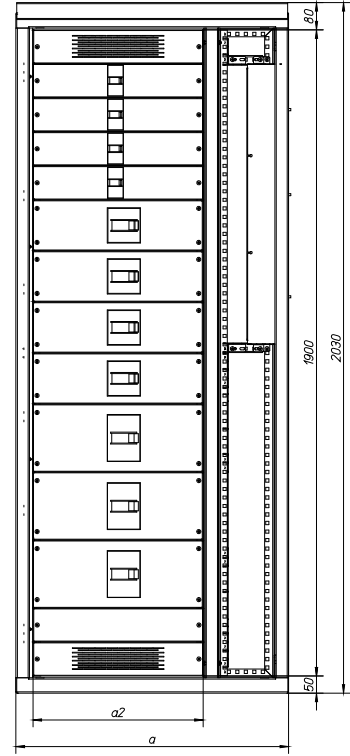
Front view

with front panels



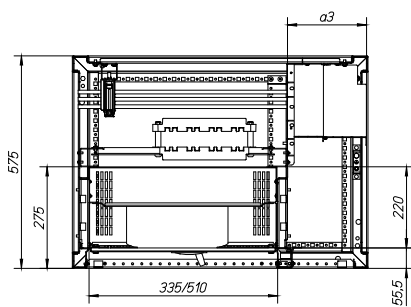
XF_NZM1_3_F4_600_V_mFP

without front panels



XF_NZM1_3_F4_600_V_oFP

Top view



XF_NZM1_3_F4_600_D

Form 4, section depth = 600

a = Section width	a1 = Module width	a2 = Width of front panels	a3 = Cable connection area
600	314	325	190
800	314	325	390
800	489	500	215
1000	489	500	415
1200	489	500	615

xEnergy Switchboards

Dimensions - XF Outgoing sections

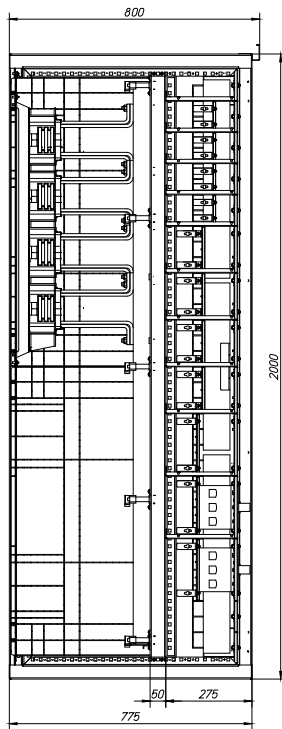
XF sections with integrated NZM1-3 circuit breaker, Form 4, section depth of 800mm

XSMFDB(04)0608 (type of fitting kit)

Fitting kit for modules/switchgear assemblies of up to 220 mm depth

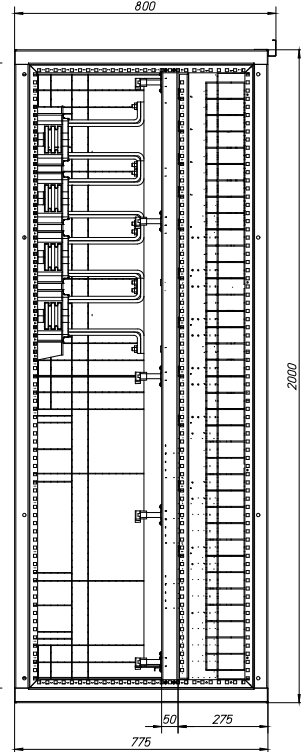
Side view

without side mounting panel



XF_NZM1_3_F4_800_S_oMS

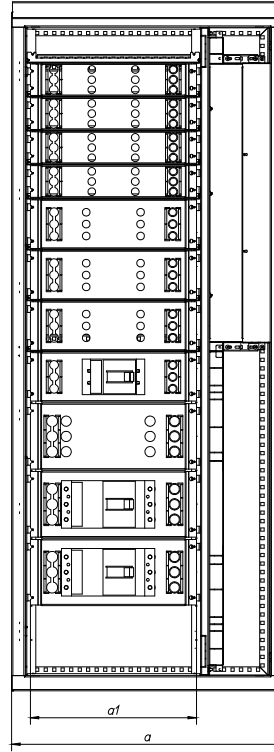
with side mounting panel



XF_NZM1_3_F4_800_S_mMS

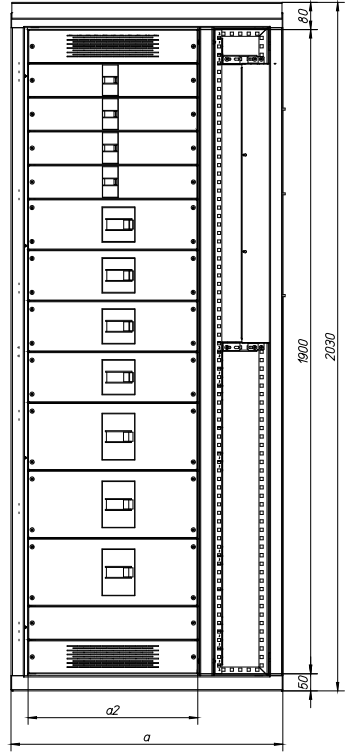
Front view

with front panels



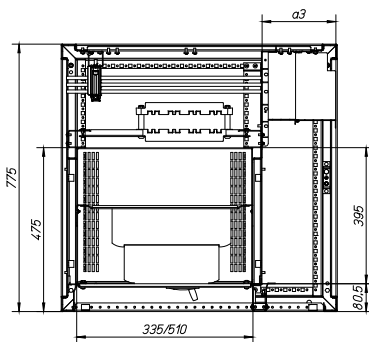
XF_NZM1_3_F4_800_V_oFP

without front panels



XF_NZM1_3_F4_800_V_mFP

Top view



XF_NZM1_3_F4_800_D

Form 4, section depth = 800

a = Section width	a1 = Module width	a2 = Width of front panels	a3 = Cable connection area
600	314	325	190
800	314	325	390
800	489	500	215
1000	489	500	415
1200	489	500	615

xEnergy Switchboards

Dimensions - XF Outgoing sections

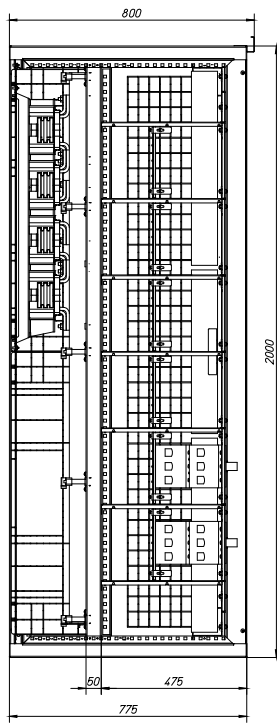
XF section with integrated NZM1-3 circuit breaker, Form 4, section depth of 800mm

XSMFDB0608-350 (type of fitting kit)

Fitting kit for modules/switchgear assemblies of up to 395 mm depth

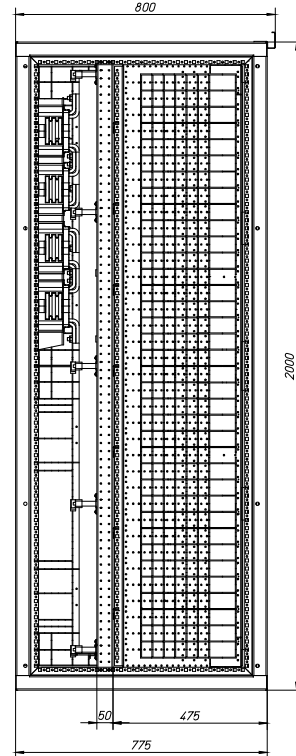
Side view

without side mounting panel



XF_NZM1_3_F4_800_S_oMS_350

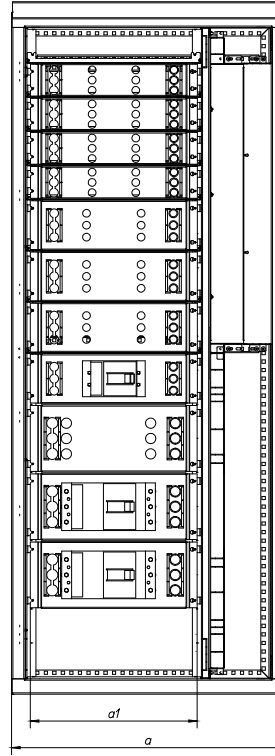
with side mounting panel



XF_NZM1_3_F4_800_S_mMS_350

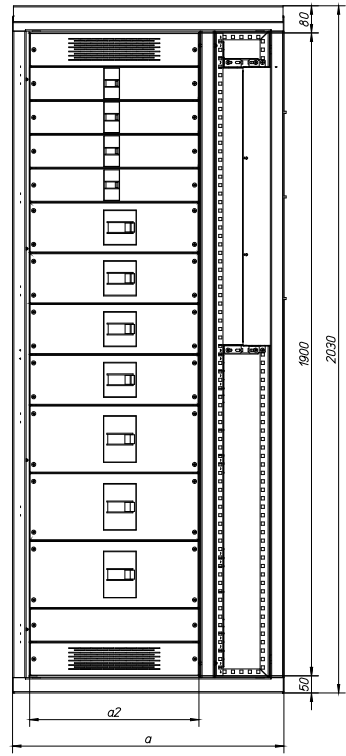
Front view

with front panels



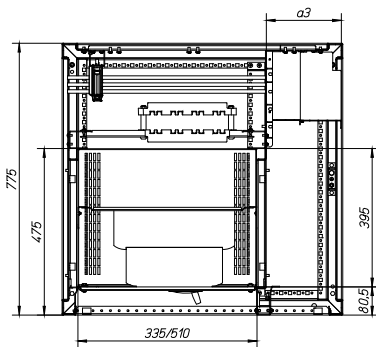
XF_NZM1_3_F4_800_V_oFP_350

without front panels



XF_NZM1_3_F4_800_V_mFP_350

Top view



XF_NZM1_3_F4_800_D_350

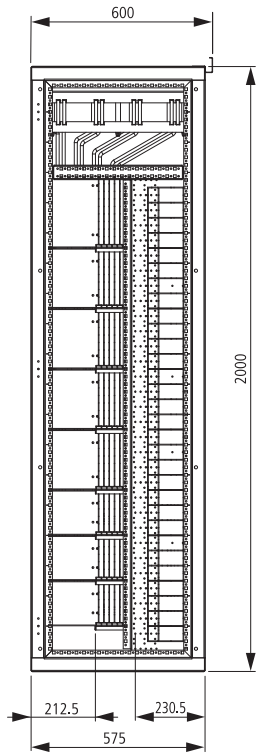
Form 4, section depth = 800

a = Section width	a1 = Module width	a2 = Width of front panels	a3 = Cable connection area
600	314	325	190
800	314	325	390
800	489	500	215
1000	489	500	415
1200	489	500	615

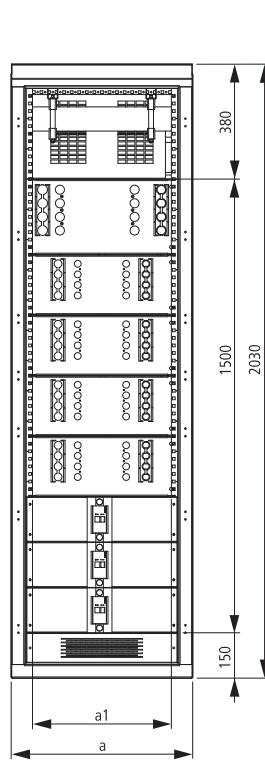
xEnergy Switchboards

Dimensions - XF Outgoing sections

XF section with incorporation of NZM1-3 circuit breakers, Form 4 with rear connection area
XSMFRDT...06



00162148_0

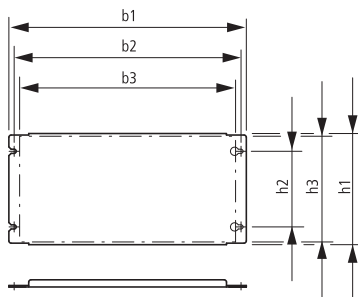


00162158_0

a	a1
425	284
600	459

XF section mounting plates

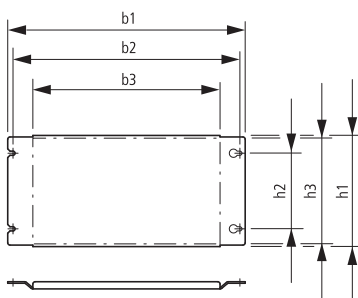
XMN...M...
Version I



00163815_0

Type	H1	B1	H2	B2	H3	B3
XNM140604M	147	314	100	300	140	283
XNM140606M	147	489	100	475	140	458
XNM140804M	197	314	150	300	190	283
XNM140806M	197	489	150	475	190	458
XNM140806MP	197	489	150	475	190	458
XNM341006M	247	489	200	475	240	458
XNM141204MV	297	314	250	300	290	283
XNM141206MV	297	489	250	475	290	458
XNM241604MV	397	314	350	300	390	283
XNM241606MV	397	489	350	475	390	458
XNM242404MV	597	314	550	300	590	283
XNM242406MV	597	489	550	475	590	458
XNM342404MV	597	314	550	300	590	283
XNM342406MV	597	489	550	475	590	458

Version II



00163825_0

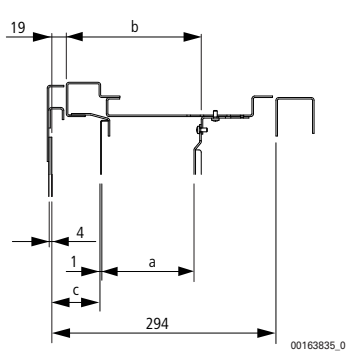
Type	H1	B1	H2	B2	H3	B3
XNM130404M	97	314	50	300	90	247
XNM130406M	97	489	50	475	90	422
XNM230604M	147	314	100	300	140	247
XNM230606M	147	489	100	475	140	422
XNM230606MP	147	489	100	475	140	422
XNM330806M	197	489	150	475	190	422
XNM131204MV	297	314	250	300	290	247
XNM131206MV	297	489	250	475	290	422
XNM231604MV	397	314	350	300	390	247
XNM231606MV	397	489	350	475	390	422
XNM232404MV	597	314	550	300	590	247
XNM232406MV	597	489	550	475	590	422
XNM332404MV	597	314	550	300	590	247
XNM332406MV	597	489	550	475	590	422

xEnergy Switchboards

Dimensions - XF Outgoing Sections

XF section in Form 4, position for mounting plates and front covers

XSMFDb..., XMN....M... and XMN....C...

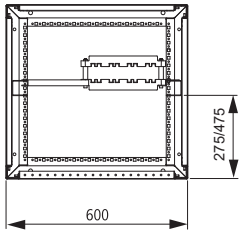


a	max. 193
b	max. 264
c	64

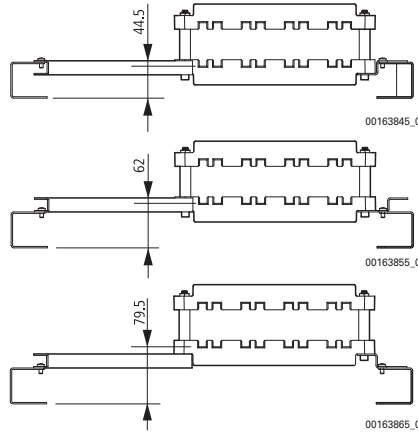
XF section with rear-mounted dropper bars for NZM1-3 circuit-breakers

XDSF...

Possible positionings XDSF...



00162138_0

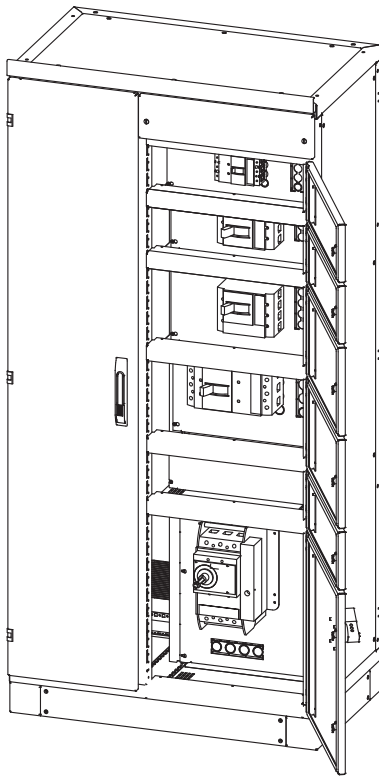


For the lowest position of the dropper bar, use the XADB06E bar end support (no. 166745).

xEnergy Switchboards

XF Outgoing sections box solution up to 630 A, Form 4 (Motor Control Center in fixed construction)

Form 4



BS_3dansicht

- in the widths of 800, 1000 and 1200 mm
- module widths of 425/600 mm
- each module comes with its own door to the switchgear area
- 3 or 4 poles
- fixed or withdrawable
- suitable for switchgear with remote operation
- to be operated behind the door or with rotary door coupling handle
- dropper bars to be selected from 800-1600 A
- empty module plates for the setup of outgoing

Switchgear area:

- operation of switchgear **behind the door** or with **rotary door coupling handle**
- each module comes with its own door to the switchgear area
- mounting of the switchgear on pre-drilled mounting plates

Dropper bars:

- Center-to-center distance between phases 60 mm
- Rated current up to 1600 A
- Rated short-time withstand current I_{CW} up to 80 kA

Cable connection area:

- cable connection is implemented either from the top or from the bottom behind a separate door to the connection area
- connection of the individual modules is implemented directly on the switchgear
- side-mounted cable strain relief rails ensure a safe and neat guidance of cables
- vertical PE-, N or PEN rails are mounted in the cable connection area and can be equipped with connections for any outgoing cable

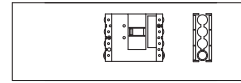
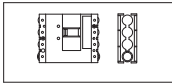
Box solution 4 - Heights and equipment

Module width 425 mm

Module width 600 mm

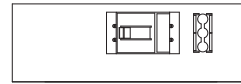
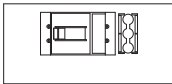
Circuit breakers NZM1

3/4 poles up to 160 A, H = 200 mm, 8U
 Mounting position: horizontal, Installation type: fixed/withdrawable



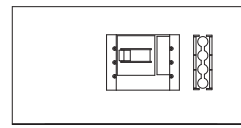
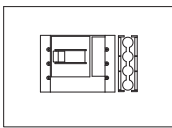
Circuit breakers NZM2

3 poles up to 300 A, H = 200 mm, 8U
 Mounting position: horizontal, Installation type: fixed/withdrawable



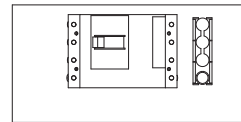
Circuit breakers NZM2

4 poles up to 300 A, H = 300 mm, 12U
 Mounting position: horizontal, Installation type: fixed/withdrawable



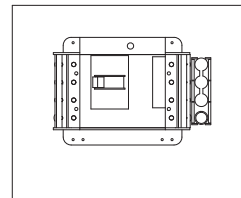
Circuit breakers NZM3

3/4 poles up to 630 A, H = 300 mm, 12U
 Mounting position: horizontal, Installation type: fixed



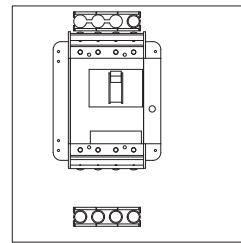
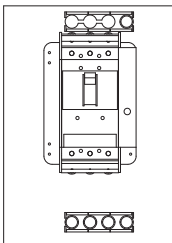
Circuit breakers NZM3

3/4 poles up to 630 A, H = 500 mm, 20U
 Mounting position: horizontal, Installation type: withdrawable



Circuit breakers NZM3

3/4 poles up to 630 A, H = 600 mm, 24U
 Mounting position: horizontal, Installation type: fixed/withdrawable



BS_425_NZM

BS_600_NZM

xEnergy Switchboards

Dimensions - XF Outgoing sections

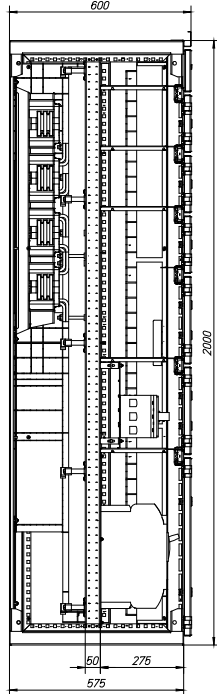
XF section / Box solution with NZM1-3 circuit breaker, Form 4, section depth of 600 mm

XSMFDB0606-BS (type of fitting kit)

Fitting kit for modules/switchgear assemblies of up to 275 mm depth

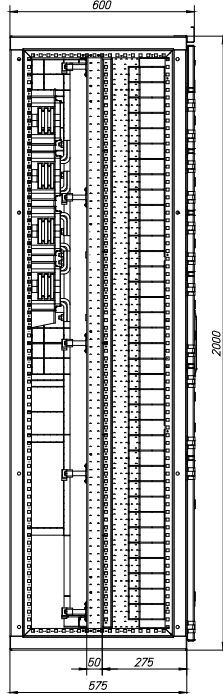
Side view

without side mounting panel



XF_NZM1_3_F4_600_S_oMS_BS

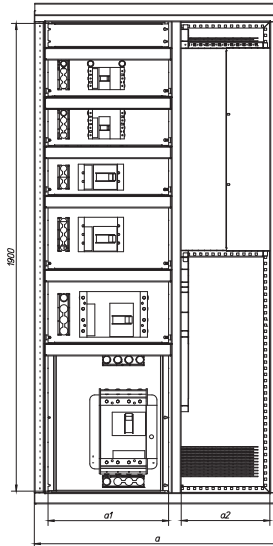
with side mounting panel



XF_NZM1_3_F4_600_S_mMS_BS

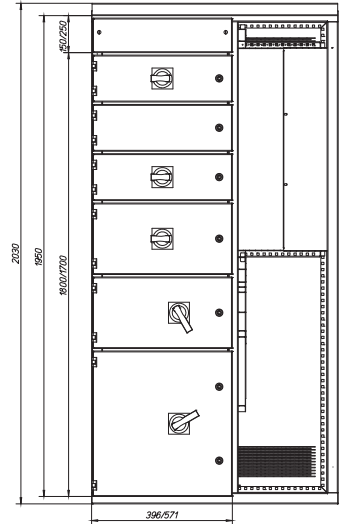
Front view

without module doors



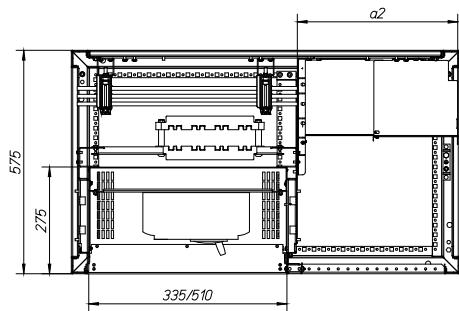
BS_abmessungen

with module doors



BS_abmessungen

Top view



XF_NZM1_3_F4_600_D_BS

Box solution, section depth = 600 mm

A = Section width	a1 = Module width	a3 = Width of cable area
600	314	190
800	314	390
800	489	215
1000	489	415
1200	489	615

xEnergy Switchboards

Dimensions - XF Outgoing sections

XF section / Box solution with NZM1-3 circuit breaker, Form 4, section depth of 800 mm

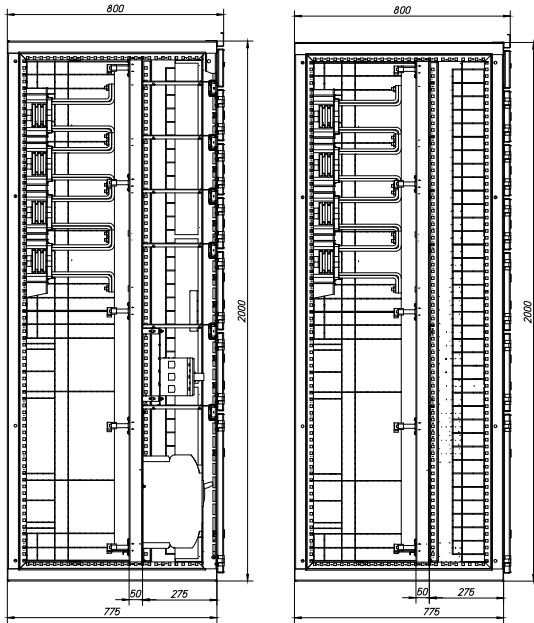
XSMFDB0608-BS (type of fitting kit)

Fitting kit for modules/switchgear assemblies of up to 275 mm depth

Side view

without side mounting panel

with side mounting panel



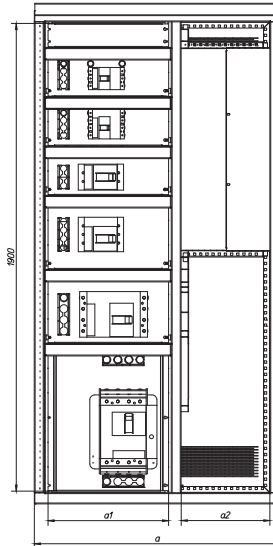
XF_NZM1_3_F4_800_S_oMS_BS

XF_NZM1_3_F4_800_S_mMS_BS

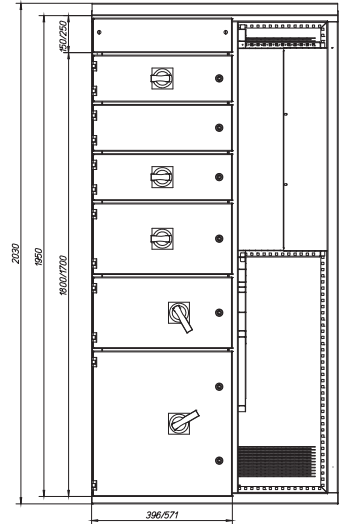
Front view

without module doors

with module doors

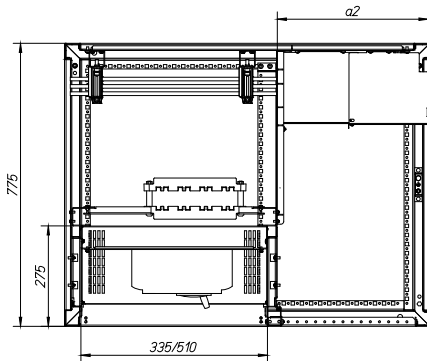


BS_abmessungen



BS_abmessungen

Top view



XF_NZM1_3_F4_800_D_BS

Box solution, section depth = 800 mm

A = Section width	a1 = Module width	a3 = Width of cable area
600	314	190
800	314	390
800	489	215
1000	489	415
1200	489	615

xEnergy Switchboards

Dimensions - XF Outgoing sections

XF section / Box solution with NZM1-3 circuit breaker, Form 4, section depth of 800 mm

XSMFDB0608-BS-350 (type of fitting kit)

Fitting kit for modules/switchgear assemblies of up to 450 mm depth

Side view

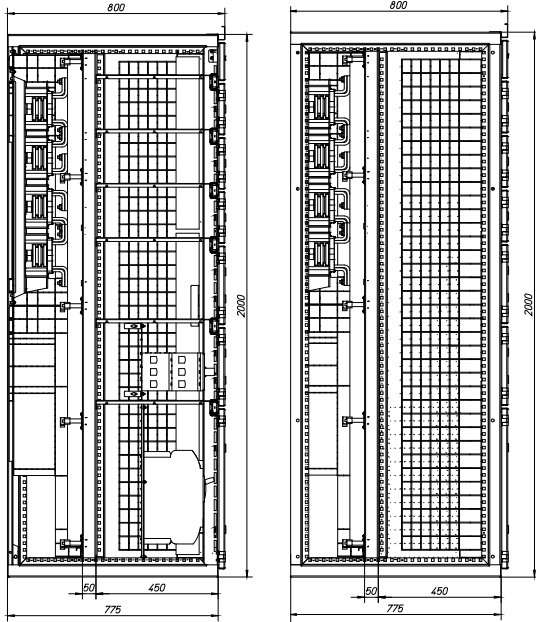
without side mounting panel

with side mounting panel

Front view

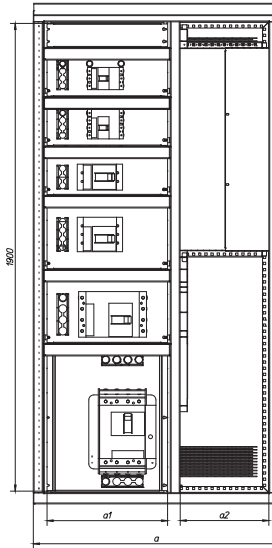
without module doors

with module doors

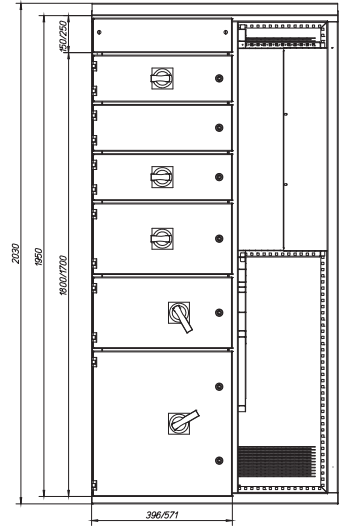


XF_NZM1_3_F4_800_S_oMS_BS_350

XF_NZM1_3_F4_800_S_mMS_BS_350

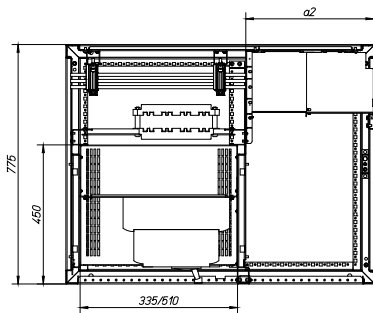


BS_abmessungen



BS_abmessungen

Top view



XF_NZM1_3_F4_800_D_BS_350

Box solution, section depth = 800 mm

A = Section width	a1 = Module width	a3 = Width of cable area
600	314	190
800	314	390
800	489	215
1000	489	415
1200	489	615

xEnergy Switchboards

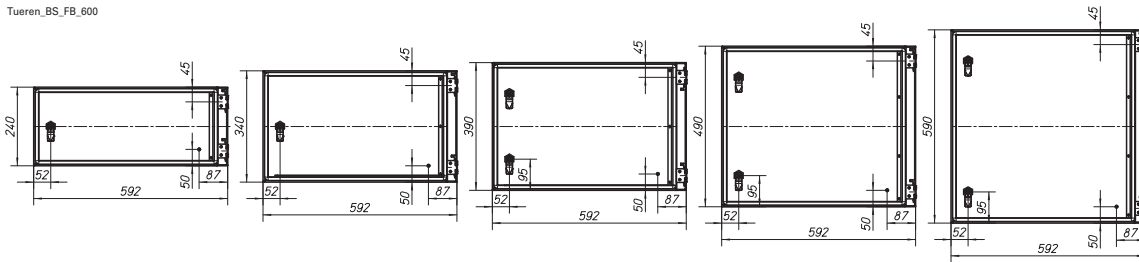
Dimensions - XF Outgoing sections

Doors - Box Solution

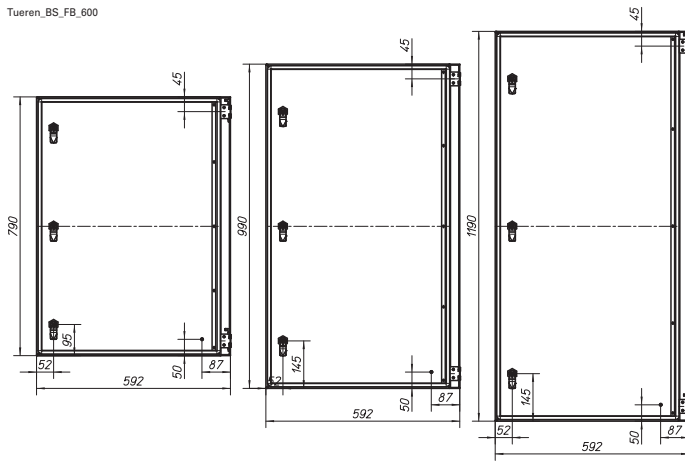
Version: Individual cabinet (no combination/device area only)

xEnergy doors - section width 600

Tueren_BS_FB_600

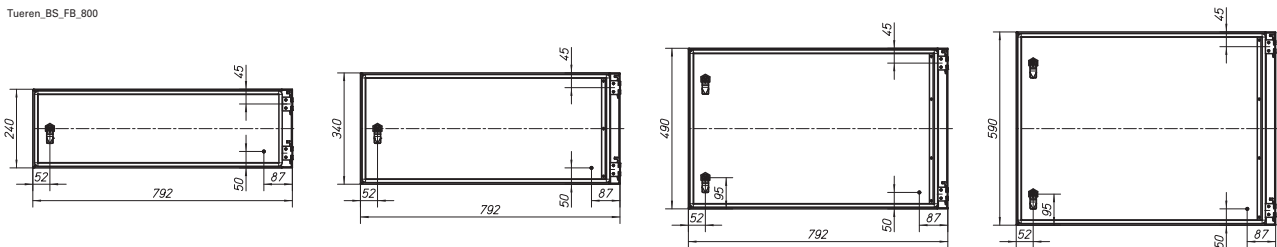


Tueren_BS_FB_600

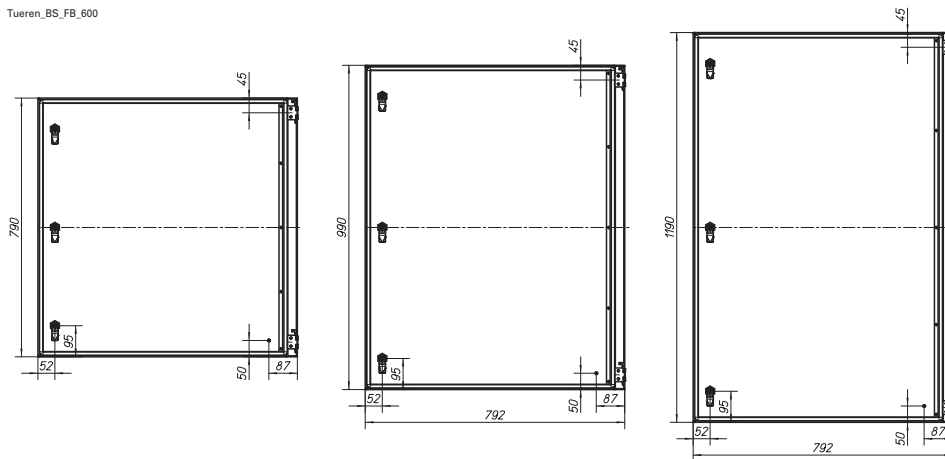


xEnergy doors - section width 800

Tueren_BS_FB_800



Tueren_BS_FB_800



xEnergy Switchboards

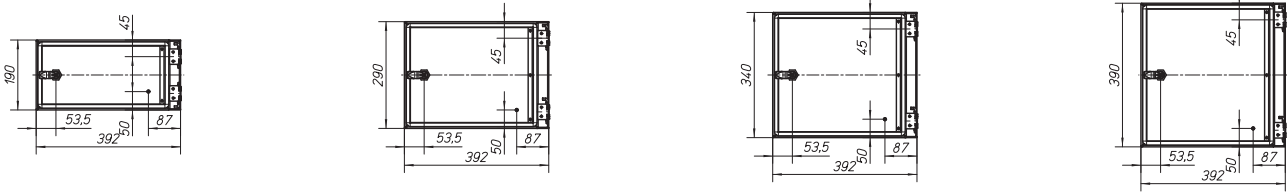
Dimensions - XF Outgoing sections

Doors - Box Solution

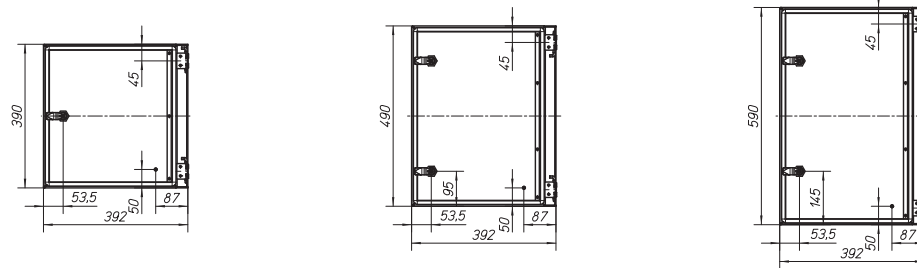
Version: Combined cabinet (device area and cable connection area in one enclosure)

xEnergy combined cabinet doors - width of the device area = 425 mm

Tueren_Kombi_BS_GR_425

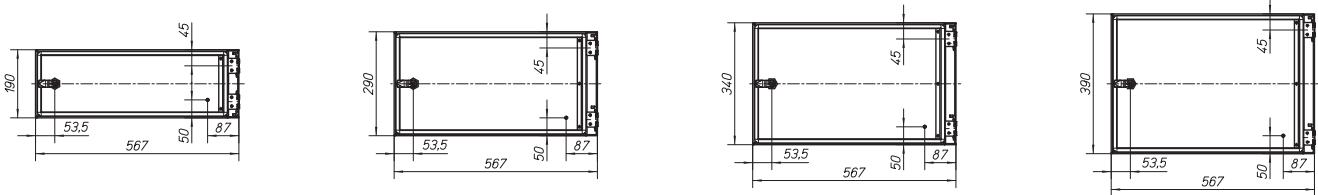


Tueren_Kombi_BS_GR_425

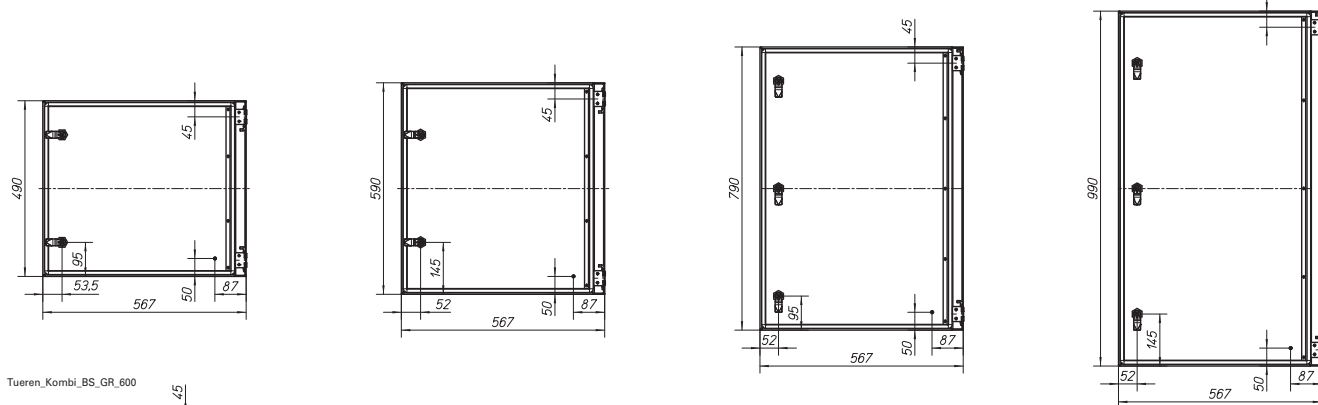


xEnergy combined cabinet doors - width of the device area = 600 mm

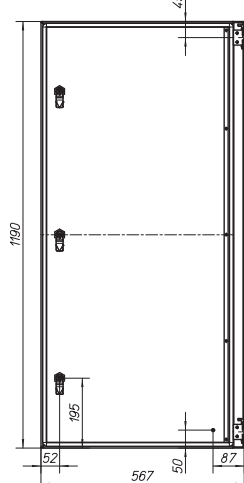
Tueren_Kombi_BS_GR_600



Tueren_Kombi_BS_GR_600



Tueren_Kombi_BS_GR_600



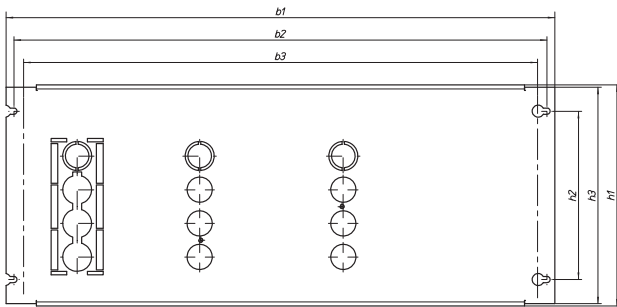
xEnergy Switchboards

Dimensions - XF Outgoing sections

XF section, mounting plates box solution

XMN...M...-BS

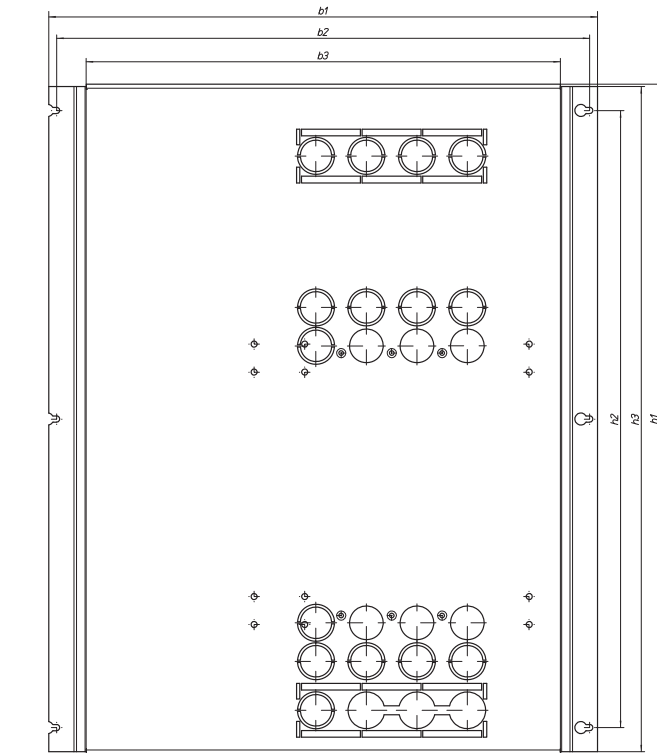
Version I



BS_mounting plates_V1

Type	H1	B1	H2	B2	H3	B3
XMN130804M-BS	197	314	150	300	190	283
XMN230804M-BS	197	314	150	300	190	283
XMN241204M-BS	297	314	250	300	290	283
XMN130806M-BS	197	489	150	475	190	458
XMN230806M-BS	197	489	150	475	190	458
XMN241206M-BS	297	489	250	475	290	458
XMN341206M-F-BS	297	489	250	475	290	458

Version II



BS_mounting plates_V2

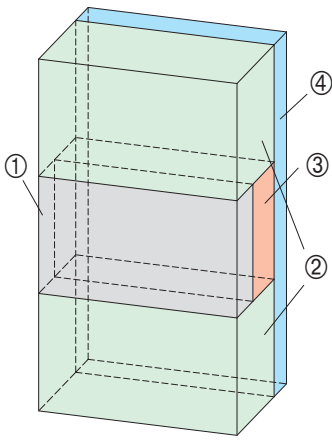
Type	H1	B1	H2	B2	H3	B3
XMN342404M-BS	597	314	550	300	590	247
XMN342006M-W-BS	497	489	450	475	490	422
XMN342406M-BS	597	489	550	475	590	422

xEnergy Switchboards

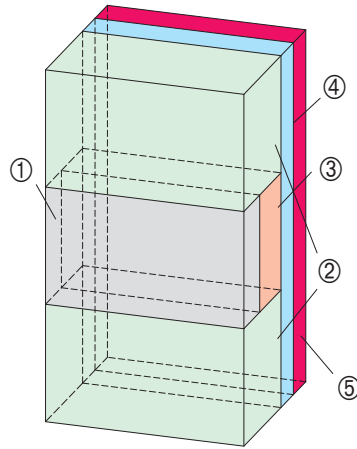
XF Outgoing sections for Fixed Design - Fuse Strips

Functional areas

Busbar rear-mounted (vertical switchgear installation)



Funkionsr_SL



Funkionsr_SL_5000

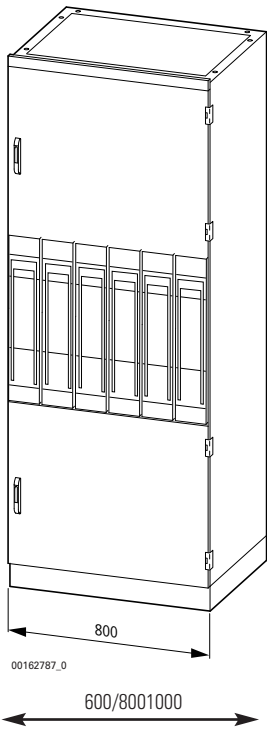
- 1 Switchgear area
- 2 Cable connection area

- 3 Dropper bars
- 4 Main busbars

- 5 Additional main busbar section for 5000 A

xEnergy Switchboards

XF Outgoing sections for fuse switch disconnectors



Section widths of 600, 800 and 1000 mm,
internal separation Form 2

Fuse strips can only be used with rear-mounted busbars. Please respect the max. current carrying capacity of the fuse strips depending on the ambient temperature, the degree of protection and the number of fuse strips per section in accordance with the xEnergy technical data.

- for **fuse switch disconnectors SL, Eaton, Jean Müller/Wöhner/M.Schneider/Pronotec**
- with single break feature
- in **vertical** mounting position

Switchgear area:

- **Operation** of the fuse strips **from outside or behind the door**
- Connection of fuse strips on the incoming side on a horizontally arranged dropper bar system
- Dropper bars are accessible from the front over the entire section width
- Thanks to a cover frame variable in depth, it is possible to use fuse strips from different manufacturers without having to change the dropper bar in depth, which ensures a neat closing between the cover frame and the fuse strips. As the front cover frame is level with the fuse strip, you can always use the same empty-space cover, even with different types of fuse strips. The cover frame (**XSMLV-I-CH..**) is not part of the fitting kit and needs to be ordered separately according to the section width.
- If you use fuse strips with an inverter, you need to use EATON fuse strips of type FCFSDNH.BB...-CTO. Fuse strips with a type designation ending on CTO have been especially designed for use with inverters, there is no need to modify the installation depth.

Dropper bars:

- Center-to-center distance between phases 185 mm
- Rated current up to 1600 A
- Rated short-time withstand current I_{CW} up to 65 kA

Cable connection area:

- Cable connection is implemented from the top or bottom
- Connections of fuse strips can be covered for protection against accidental contact
- Cable strain relief rails assure safe guidance of outgoing cables
- The connection area is accessible via a separate door to the cable connection area and can be sealed off from the busbar and switchgear area.
- Areas not used for cable insertion can be used to accommodate additional equipment, e.g. controlgear

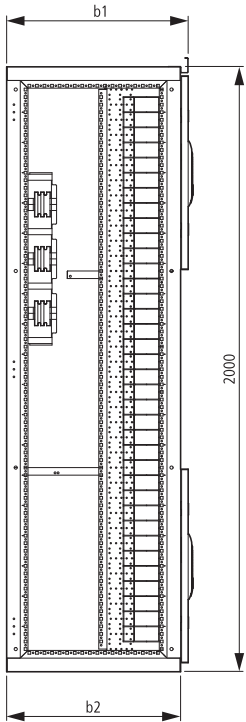
Type	I_e up to A	Size mm
SL00	160	50
SL1	250	100
SL2	400	100
SL3	630	100

Section width mm	Max. installation space mm
600	500
800	700
1000	900

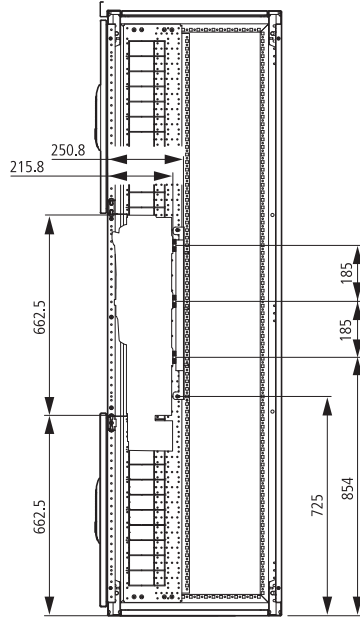
xEnergy Switchboards

XF Outgoing sections fixed installation for fuse switch disconnectors - Dimensions

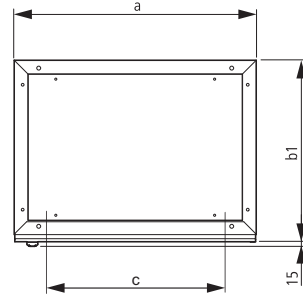
XF Outgoing sections fixed installation for fuse switch disconnectors SL, vertical XSMLV



00162369_0



00162189_0

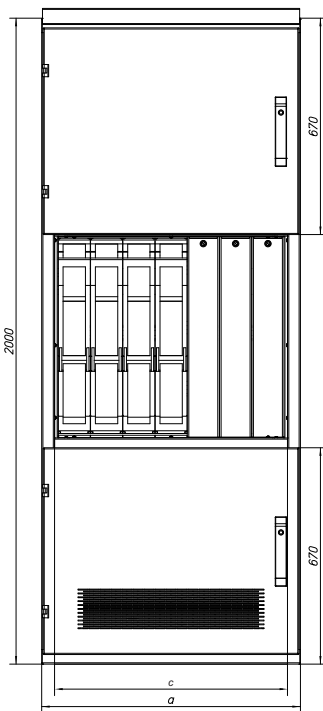


00162389_0

b1	b2
600	575
800	775

a	c
600	500
800	700
1000	900

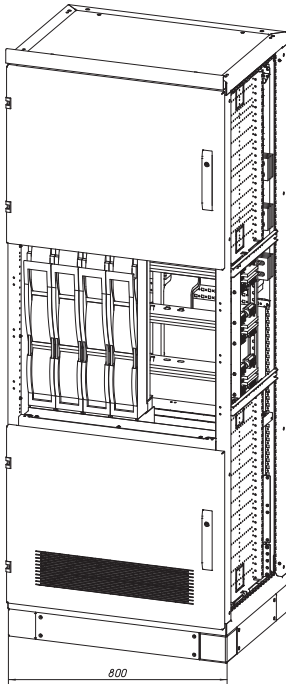
c = maximum possible device installation area



XSMLV_I_Front_1

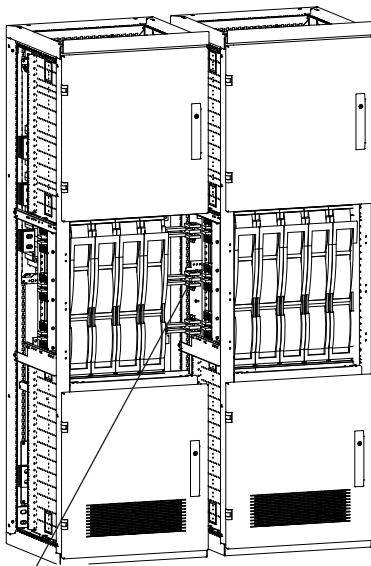
xEnergy Switchboards

XF Outgoing sections - fixed design - for fuse switch disconnectors with section dropper bar across two sections

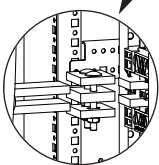


XSMLV_1

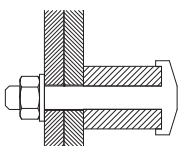
Fuse strips can only be used with rear-mounted busbars. Please respect the max. current carrying capacity of the fuse strips depending on the ambient temperature, the degree of protection and the number of fuse strips per section in accordance with the xEnergy technical data.



XSMLV_Ansi_2



Push CU flaps between and over the dropper bar(s) and tighten to the right torque (20Nm).



XSMLV_1_Detail_a

Individual holes punched into the dropper bar ensure that the space between the connections from the main busbar to the dropper bar can be used for accommodating fuse strips.

- for **fuse switch disconnectors (SL)** - Manufacturer: EATON
- with single break feature
- in **vertical** mounting position

Switchgear area:

- **Operation** of the fuse strips **from outside or behind the door**
- connection of fuse strips to a horizontally positioned double busbar system with 12.5 mm distance between the busbar pairs
- dropper bars are accessible from the front, over the entire section width
- Thanks to a cover frame variable in depth, it is possible to use fuse strips from different manufacturers without having to change the dropper bar in depth, which ensures a neat closing between the cover frame and the fuse strips. As the front cover frame is level with the fuse strip, you can always use the same empty-space cover, even with different types of fuse strips. The cover frame (**XSMLV-I-CH..**) is not part of the fitting kit and needs to be ordered separately according to the section width.
- If you use fuse strips with an inverter, you need to use EATON fuse strips of type FCFSDNH.BB...-CTO. Fuse strips with a type designation ending on CTO have been especially designed for use with inverters, there is no need to modify the installation depth.

Cable connection area:

- Cable connection is implemented from the top or bottom
- Connections of fuse strips can be covered for protection against accidental contact
- Cable strain relief rails assure safe guidance of outgoing cables
- The connection area is accessible via a separate door to the cable connection area and can be sealed off from the busbar and switchgear area.
- Areas not used for cable insertion can be used to accommodate additional equipment, e.g. controlgear

Type	I_e up to	Size
	A	mm
SL00	160	50
SL1	250	100
SL2	400	100
SL3	630	100

Section width	Max. installation space
mm	mm
600	500
800	700
1000	900

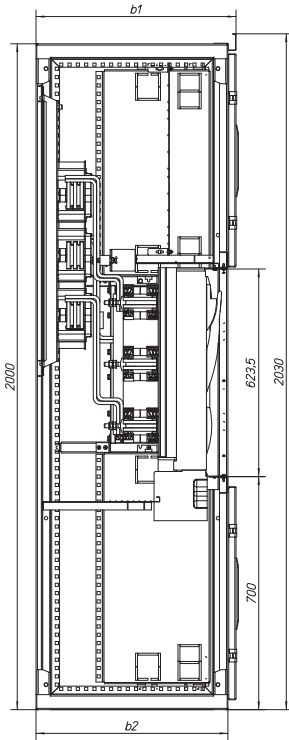
Dropper bar:

- Easy connecting of the dropper bars from section to section thanks to flat copper flaps (bar thickness of flat copper flaps 10 and 12 mm) used in each case. Following the mechanical connection of the switchboard cabinets, the flaps are pushed over the dropper bars of the busbars you wish to connect, and then tightened to the respective torque using a torque wrench. To make it easier to bring the flaps into the right position, you will need to remove two fuse strips from one of the two switchboard cabinets. Once the job on the electrical connections has been finished, the fuse strips can be fixed and secured again.
- up to 40% of the copper can be saved by not using a main busbar in SL-I cabinets (as of 3 sections).
- Center-to-center distance of 185 mm between the phases
- Rated current 1600–3200 A
- Rated short-time withstand current $I_{CW} = 80kA$

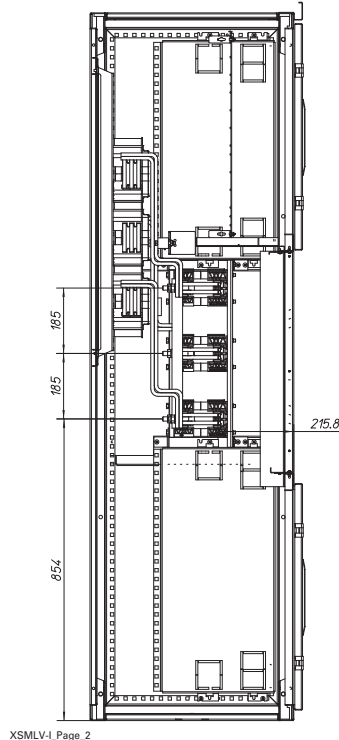
xEnergy Switchboards

XF Outgoing sections - fixed design - for fuse switch disconnectors with section dropper bar across two sections - Dimensions

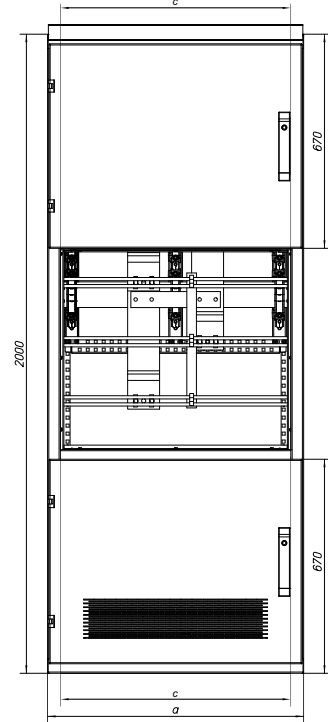
XF section with dropper bar across two sections and vertically installed SL fuse switch disconnectors
XSMLV-I



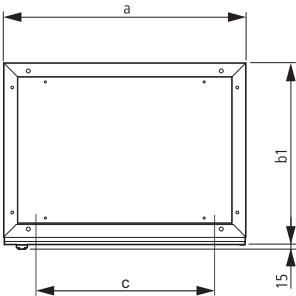
XSMLV-I_Page_1



XSMLV-I_Page_2



XSMLV-I_Front_2



00162389_0

b1	b2
600	575
800	775
1000	975

a	c
600	500
800	700
1000	900

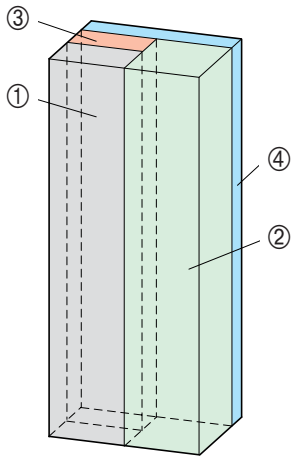
c = maximum possible device installation area

xEnergy Switchboards

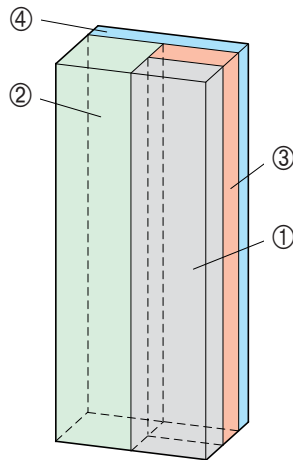
XR Outgoing sections for Removable Design Modules

Functional areas

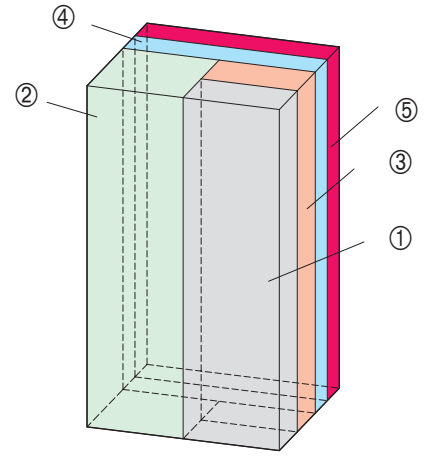
Busbar rear-mounted (vertical switchgear installation)



00156267_0



00155856_0



Kat_5000_funks_r

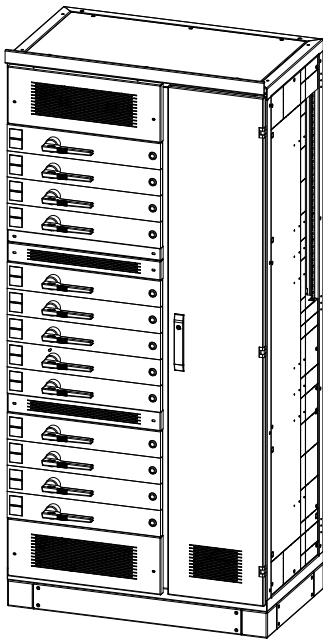
- 1 Switchgear area
- 2 Cable connection area

- 3 Dropper bars
- 4 Main busbars

- 5 Additional main busbar section for 5000 A

xEnergy Switchboards

XR Outgoing sections for switch fuse units



XE_Kat_SASIL_13-17

1000/1200

Section widths of 1000 and 1200 mm, (horizontal installation)

Section widths of 600, 800 and 1000 mm, (vertical installation)
internal separation Form 4

Important rules for PIFT plus project planning

- Place switch fuse units evenly over the entire height of the cabinet
- Place large sizes at the bottom, small ones at the top! Thermal effect!
- Arrange sizes NH00-2 in blocks of 300mm, then leave at least 1 section of 75 mm for ventilation purposes!
- With size NH3 leave 1 section for ventilation purposes both above and below!
- No cross-partitioning in the switchgear area!
- Leave spare areas evenly placed over the entire cabinet height!
- Applying the full rated current is possible for a short while (15-30min). Please respect the rated diversity factors when under permanent load.
- If possible provide for ventilation of the top (max. IP31)!
- Arrangement of busbar supports
 - For size 00 above or below the fuse strips
 - For size 1 between the units
 - For sizes 2, 3 between the units or at the center behind the unit
- Center-to-center distance between busbar supports should be able to be divided by 150 mm (where necessary use another busbar support!!) Most important for smooth mounting of busbar covers!

• for switch fuse units PIFT plus type, Eaton/ABB Slim-Line

- with double break feature
- in **vertical** and **horizontal** mounting position (Jean Müller)

Switchgear area:

- **Operation** of the switchgear **from outside** or **behind the door**
- Connection of the switch fuse strips on the incoming side to a vertically arranged dropper bar system, optionally available with plug-in module technology and protected against accidental contact
- Dropper bars provide access from the front over the entire height

Dropper bars:

- Center-to-center distance of phases 185 mm
- Rated current up to 1600 A
- Rated short-time withstand current I_{CW}

Busbar I_e A	Busbar cross-section L1, L2, L3, full N mm ²	Max. center-to-center distance of busbars in mm for I_{CW} (1s)		
		45 kA	50 kA	65 kA
800	1 x 40 x 10	600	600	-
1000	1 x 60 x 10	600	600	600
1250	1 x 80 x 10	750	750	600
1600	1 x 100 x 10	750	750	750

Cable connection area:

- Cable connection is implemented on the right side of the distributor section, outgoing cables can be introduced from above or below
- Connections of the fuse strips can optionally be covered with cable barriers for protection against accidental contact.
- Cable strain relief rails assure secure guidance for the outgoing cables
- The connection area is accessible via a separate door to the cable connection area and can be sealed off from the busbar and switchgear area.
- Vertical PE, N or PEN rails are installed in the cable connection area and can be equipped with terminations for every outgoing cable.

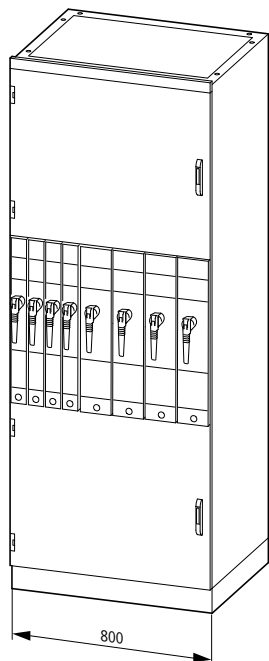
Type	I_e up to A	Size mm	Number per section
PIFT00	160	50	max. 24
PIFT1	250	75	max. 16
PIFT2	400	150	max. 8
PIFT3	630	150	max. 8

Vertical installation:

- Connection of the switch fuse strips on the incoming side to a vertically arranged dropper bar system
- Cable connection is implemented from the top or bottom
- The connection area is accessible via a separate door to the cable connection area
- Areas not used for cable insertion can be used for additional equipment, e.g. for controlgear
- **Operation** of the switchgear **from outside**

Type	I_e up to A	Size mm
PIFT00	160	50
PIFT1	250	75
PIFT2	400	150
PIFT3	630	150

Section width mm	Max. installation space mm
600	500
800	700
1000	900



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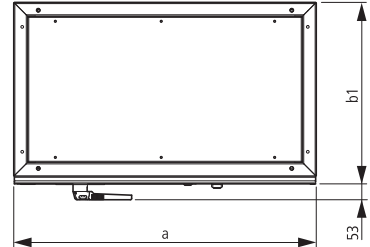
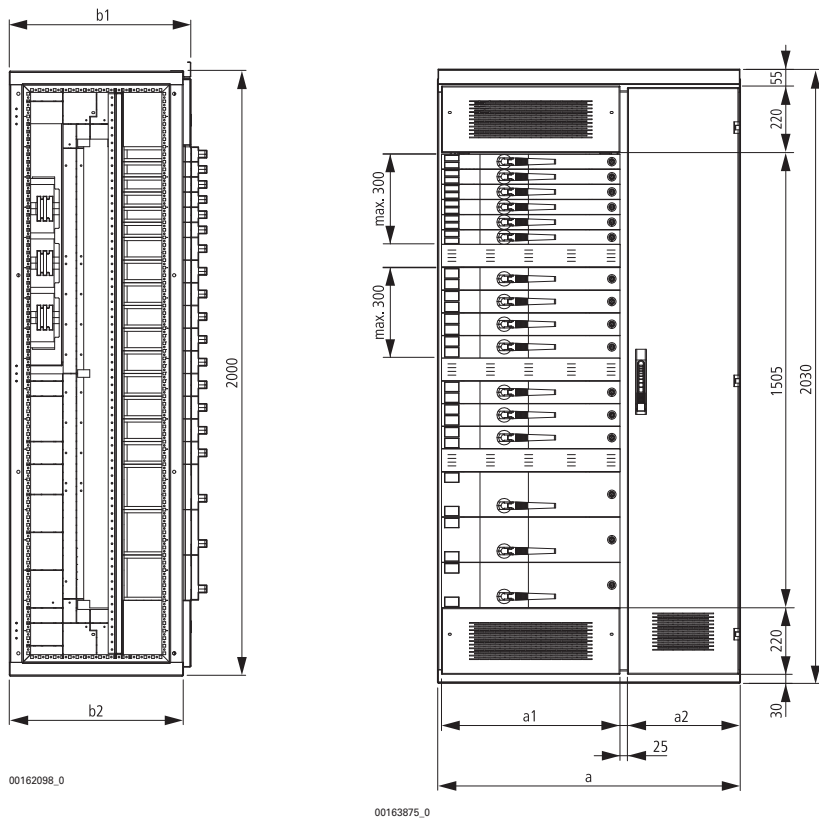
600/800/1000

Fuse strips can only be used with rear-mounted busbars. Please respect the max. current carrying capacity of the fuse strips depending on the ambient temperature, the degree of protection and the number of fuse strips per section in accordance with the xEnergy technical data.

xEnergy Switchboards

Dimensions - XR Outgoing sections

XR section with incorporation of PIFT switch fuse units, horizontal
XSMSHD...

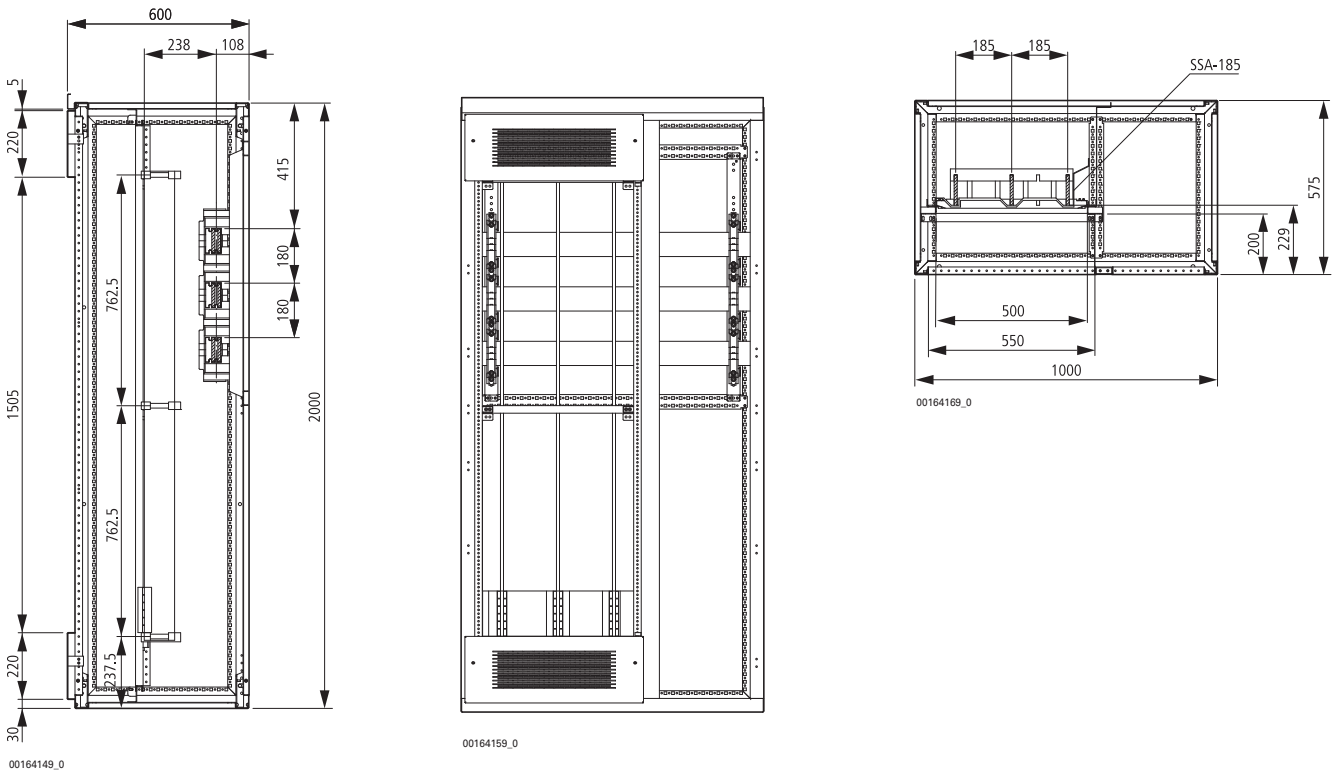


00162108_0

b1	b2
600	575
800	775

a	a1	a2
1000	590	369
1200	590	569

XR section with incorporation of dropper bars for PIFT switch fuse units, vertical
XDSSV...

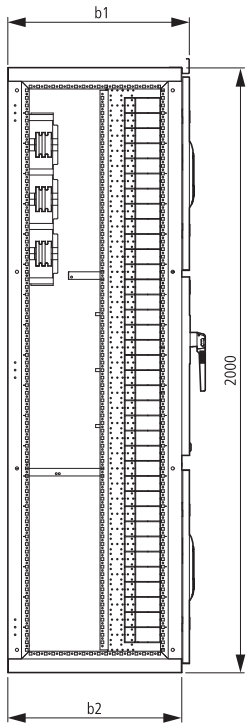


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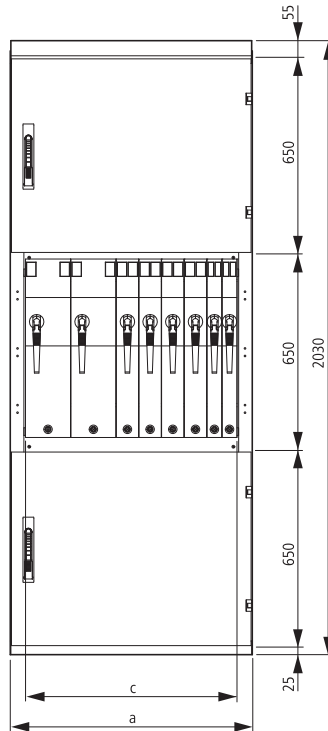
xEnergy Switchboards

Dimensions - XR Outgoing sections

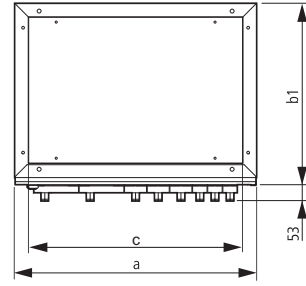
XR section with incorporation of PIFT switch fuse units, vertical
XSMSV...08



00162349_0



00162359_0



00162379_0

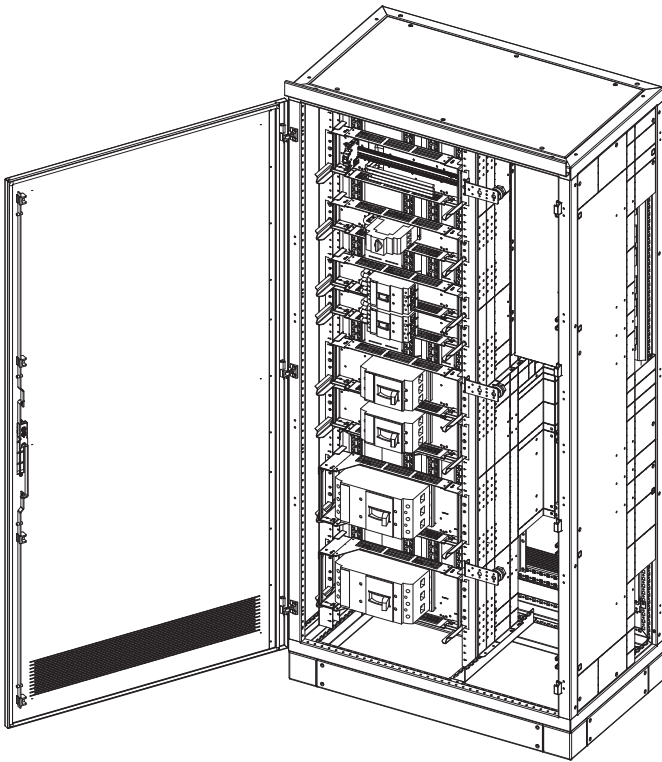
b1	b2
600	575
800	775

a	c
600	500
800	700
1000	900

xEnergy Switchboards

XR Outgoing sections for plug-in module technology up to 630 A, Form 2

Form 2



XE-Katalog-Pl-2b

- in the widths of 800, 1000 and 1200 mm
- 3 or 4 poles
- IP31/55
- consistent mounting height of switchgear
- single-wing section door with 800/1000 mm, double-wing with 1200 mm
- suitable for switchgear with remote operation
- operation behind the door
- dropper bar to be selected from 800-1600 A
- separate setup in 2 separate sections possible, e.g. 600/600 mm switchgear area/cable connection area
- plug-in module - empty module for RCD, FAZ, ...
- switchgear area and cable connection area can be used vice-versa
- max. height available (for placing equipment) 1900 mm

Switchgear area:

- operation of the switchgear **behind the door**
- Contacting of modules on the incoming side to a vertically arranged bar system
- dropper bars are accessible from the front over the entire height of the section

Dropper bars:

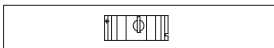
- Center-to-center distance of phases 185 mm
- Rated current up to 1600 A
- Rated short-time withstand current I_{CW} up to 80 kA

Busbar I_e	Busbar cross-section L1, L2, L3, full N	Max. center-to-center distance between busbar carrier in mm for I_{CW} (1s)					
		35 kA	45 kA	50 kA	65 kA	80 kA	100 kA
800	1 x 40 x 10	600	600	600	450	450	-
1000	1 x 60 x 10	600	600	600	450	450	-
1250	1 x 80 x 10	600	600	600	450	450	-
1600	1 x 100 x 10	600	600	600	450	450	-

Cable connection area:

- cable connection is implemented from the top or from the bottom
- plug-in modules are either directly connected to the switchgear or to terminals separately coming out of the module
- side-mounted cable strain relief rails assure a safe and neat cable guidance
- vertical PE, N or PEN rails are mounted in the cable connection area and can be equipped with terminals for any outgoing cable

Plug-in technology Form 2 - Heights and equipment



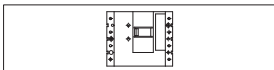
Motor-protective circuit breakers

PKZM0 up to 32 A, PKZM2 up to 40 A, PKZM4 up to 63 A
H = 100 mm



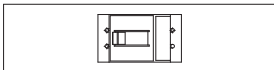
Circuit breakers

NZM1/3 poles up to 160 A
H = 100 mm



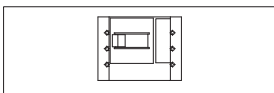
Circuit breakers

NZM1/4 poles up to 160 A
H = 150 mm



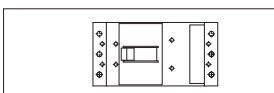
Circuit breakers

NZM2/4 poles up to 300 A
H = 150 mm



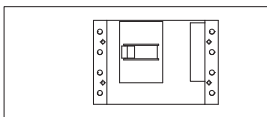
Circuit breakers

NZM2/4 poles up to 300 A
H = 200 mm



Circuit breakers

NZM3/3 poles up to 630 A
H = 200 mm



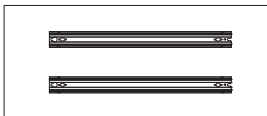
Circuit breakers

NZM3/4 poles up to 630 A
H = 250 mm



Drawer-unit module

with device carrying rail
H = 150 mm



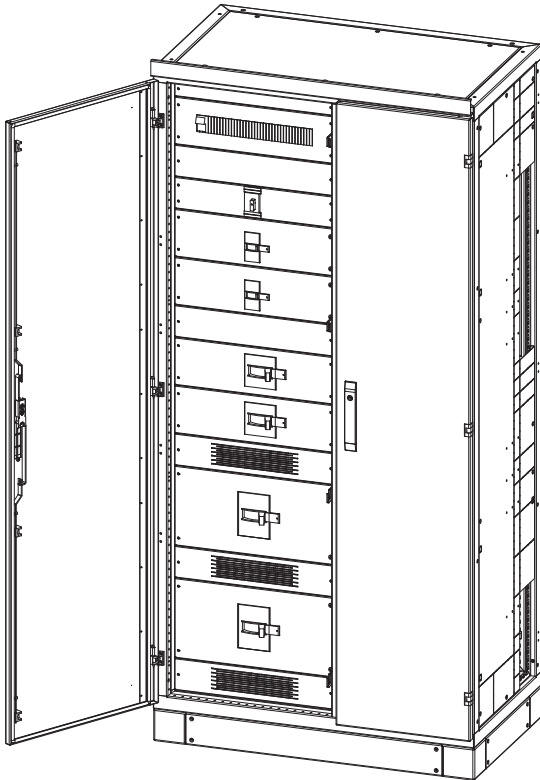
Drawer-unit module

with two device carrying rails
H = 250 mm

xEnergy Switchboards

XR Outgoing sections for plug-in module technology up to 630 A, Form 4

Form 4



XE-NZM-PI-4a

- in the widths of 800, 1000 and 1200 mm
- 3 or 4 poles
- IP31/55
- each module comes with its own front panel
- separate door to switchgear area and connection area
- transparent doors are available (glass door)
- empty plug-in module for mounting RCD, FAZ, ...
- to be operated behind the door
- dropper bar to be selected from 800-1600 A
- separate setup in 2 separate sections is possible, e.g. 600/600 mm switchgear area/cable connection area
- max. height available (for placing equipment) = 1900 mm

Switchgear area:

- operation of the switchgear **behind the separate door to switchg. area**
- each module is equipped with its own front panel
- contacting of modules on the incoming side to a vertically arranged bar system
- dropper bars are accessible from the front over the entire height of the section

Dropper bars:

- Center-to-center distance of phases 185 mm
- Rated current up to 1600 A
- Rated short-time withstand current I_{CW} up to 80 kA

Busbar I_e	Busbar cross-section L1, L2, L3, full N	Max. center-to-center distance between busbars carrier in mm for I_{CW} (1s)					
		35 kA	45 kA	50 kA	65 kA	80 kA	100 kA
800	1 x 40 x 10	600	600	600	450	450	-
1000	1 x 60 x 10	600	600	600	450	450	-
1250	1 x 80 x 10	600	600	600	450	450	-
1600	1 x 100 x 10	600	600	600	450	450	-

Cable connection area:

- cable connection is implemented from the top or from the bottom behind a separate door to the connection area
- plug-in modules are either directly connected to the switchgear or to terminals separately coming out of the module
- side-mounted cable strain relief rails assure a safe and neat cable guidance
- vertical PE, N or PEN rails are mounted in the cable connection area and can be equipped with terminals for any outgoing cable

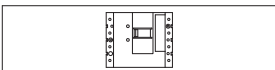
Plug-in module technology Form 4 - Heights and equipment, modules incl. front panel



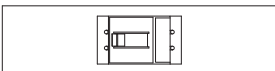
Motor-protective circuit breakers
PKZM0 up to 32 A, PKZM2 up to 40 A, PKZM4 up to 63 A
H = 100 mm



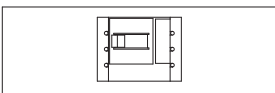
Circuit breakers
NZM1/3 poles up to 160 A
H = 100 mm



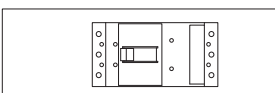
Circuit breakers
NZM1/4 poles up to 160 A
H = 150 mm



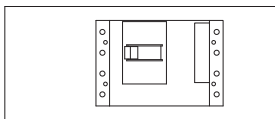
Circuit breakers
NZM2/4 poles up to 300 A
H = 150 mm



Circuit breakers
NZM2/4 poles up to 300 A
H = 200 mm



Circuit breakers
NZM3/3 poles up to 630 A
H = 200 mm



Circuit breakers
NZM3/4 poles up to 630 A
H = 250 mm



Drawer-unit module
with device carrying rail
H = 150 mm



Drawer-unit module
with two device carrying rails
H = 250 mm

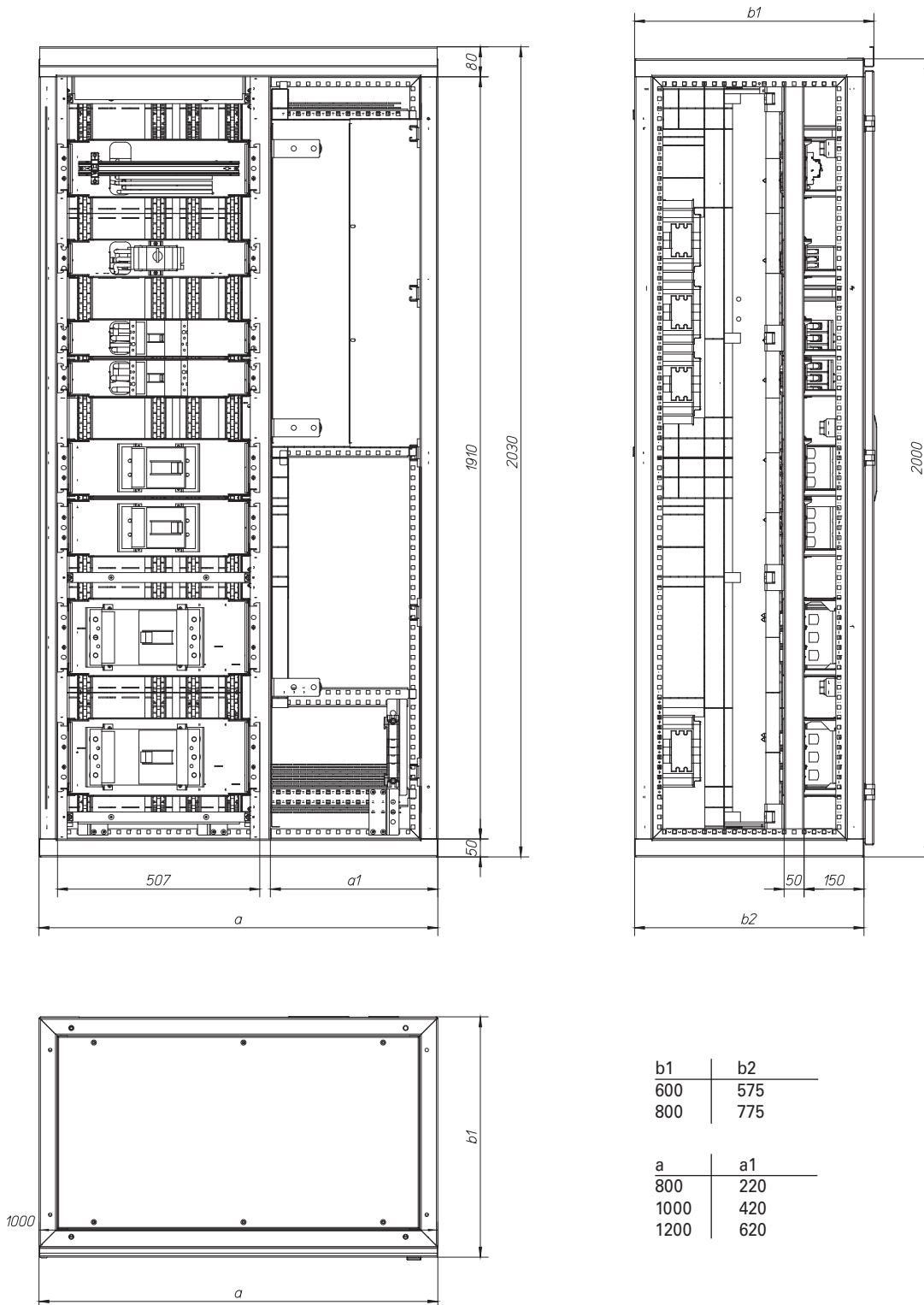
XE-Steck-Katalog-Schalter-4b

XE-Steck-Katalog-Schalter-4b

xEnergy Switchboards

Dimensions - XR Outgoing sections

XF section using plug-in module technology, Form 2



Ansicht_Kasten_2b

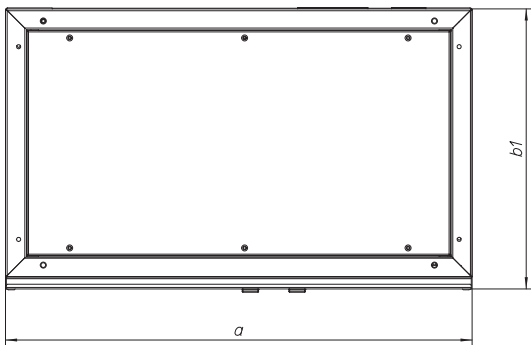
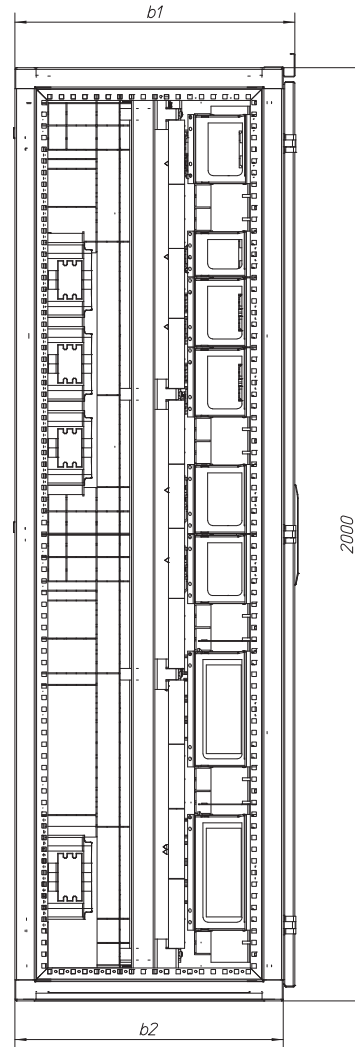
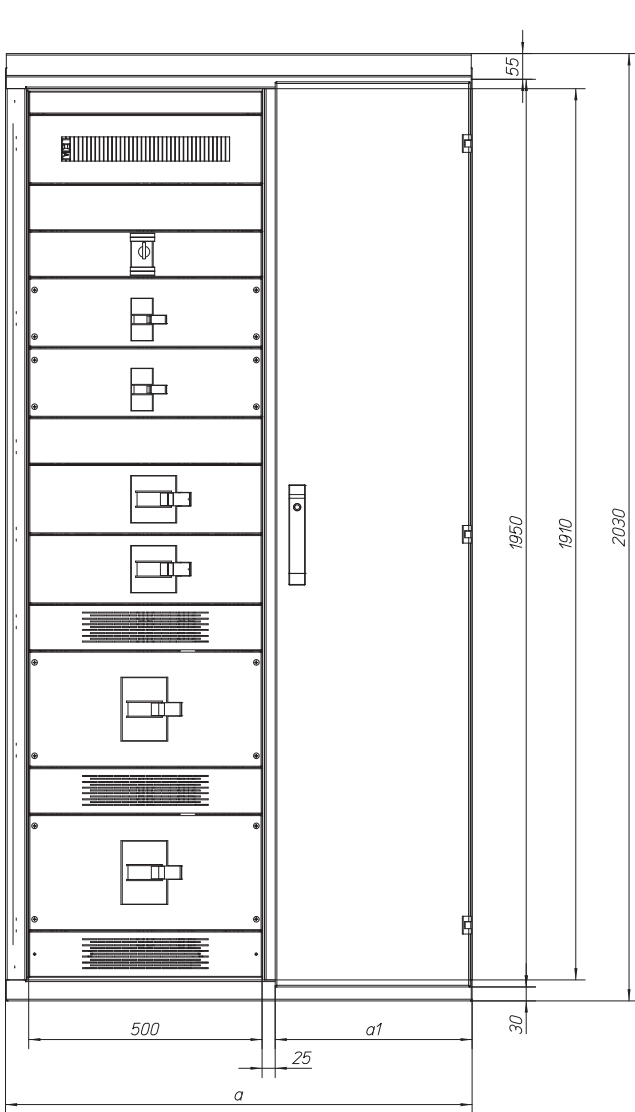
b1	b2
600	575
800	775

a	a1
800	220
1000	420
1200	620

xEnergy Switchboards

Dimensions - XR Outgoing sections

XF section using plug-in module technology, Form 4



b1	b2
600	575
800	775

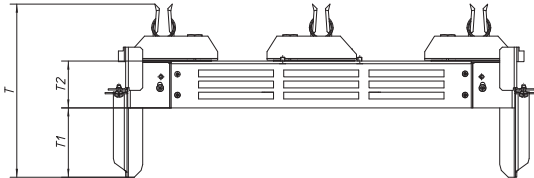
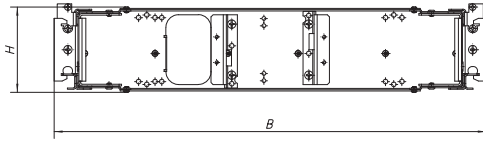
a	a1
800	225
1000	425
1200	625

Ansicht_Kasten_4b

xEnergy Switchboards

Dimensions - XR Outgoing sections

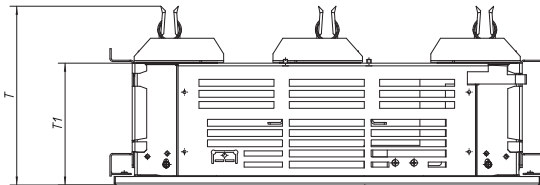
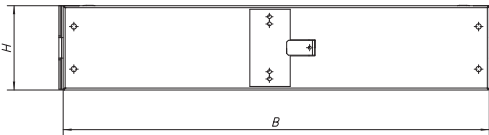
Main dimensions of plug-in modules in Form 2



BS_Module_2b_Abmess

Type	B	H	T	T1	T2
NZM1 3p H100	507	100	203	81,5	55
NZM2 3p H150	507	150	202	81,5	55
NZM3 3p H200	507	200	206	8,5	125
Empty module H150	507	150	206	81,5	55
PKZ H100	507	100	203	81,5	55
NZM1 4p H150	507	150	203	81,5	55
NZM2 4p H200	507	200	203	81,5	55
NZM3 4p H250	507	250	206	8,5	125
Empty module H250	507	250	203	81,5	55

Main dimensions of plug-in modules in Form 4



BS_Module_4b_Abmess

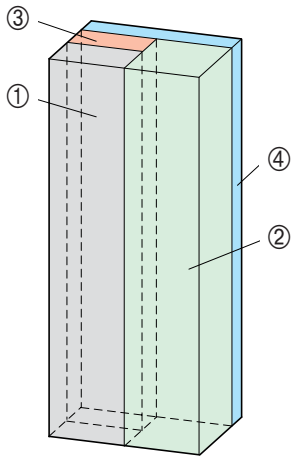
Type	B	H	T	T1
NZM1 3p H100	500	99	210	143
NZM2 3p H150	500	149	210	143
NZM3 3p H200	500	199	213	140
Empty module H150	500	149	210	142
PKZ H100	500	99	210	143
NZM1 4p H150	500	149	210	142
NZM2 4p H200	500	199	210	143
NZM3 4p H250	500	249	213	140
Empty module H250	500	249	210	143

xEnergy Switchboards

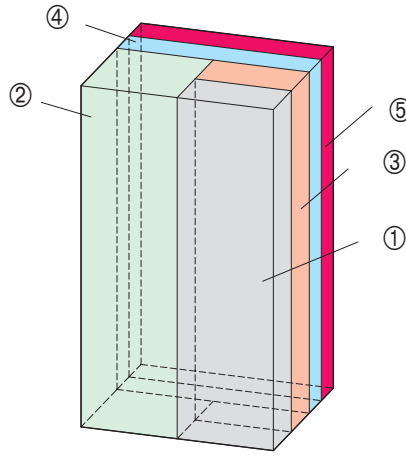
XW Outgoing sections in fully withdrawable design

Functional areas

Busbar rear-mounted



00156267_0



Kat_5000_funkts_r

1 Switchgear area

3 Dropper bars

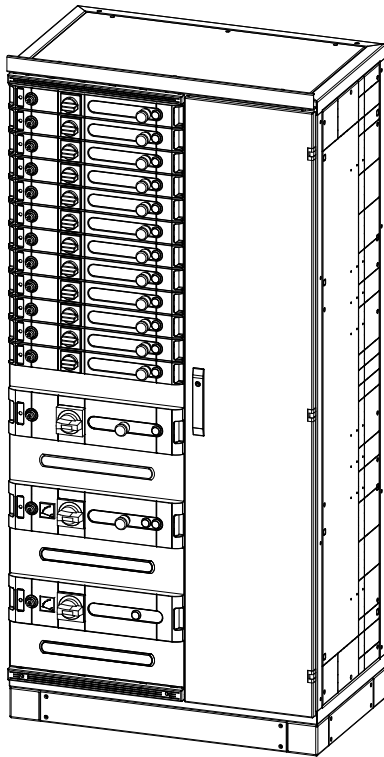
5 additional main busbar section for 5000 A

2 Cable connection area

4 Main busbars

xEnergy Switchboards

XW Outgoing sections for Motor Control Centers in withdrawable design



ANS-MCC-Katalog

Heights and versions of the withdrawable design:

Configuration as power outgoer, direct starter, reverse starter, star-triangle starter

- in the widths of 1000 and 1200 mm
- in section depths of 600, 800 and 1000 mm
- 3 or 4 poles
- rated current of dropper bars $I_n=1000$ or 2000 A / 3 or 4 poles
- max. short-circuit current $I_{CW}=80$ kA
- IP31/55
- to keep IP31 with drawers in test position or in open position you need to use design strip /rain shield (type XSDR10(12)-X1-B)
- shelf-boards can be individually mounted in height, depending on the size of the modules
- max. height of the dropper bar available for equipment = 1875 mm
- cable connection area is fully sealed off from the switchgear area, main busbar area and dropper bar area
- dropper bar is fully sealed off at the front thanks to self-closing shutters
- drawers available:
 - power outgoers up to 630 A
 - direct starters from 0.06-132 kW
 - reverse starters from 0.06-132 kW
 - star-triangle starters from 5.5-110 kW
- outgoers from 132 to 250 kW are executed as fixed design solutions

Switchgear area:

- max. height of switchgear area available for equipment = 1875 mm
- connection of modules (main/control circuit) both on the incoming and outgoing side is done on plug-type contact blocks. The outgoing plug-type contact block is mounted in the correct current rating on the shelf-board, which is then inserted into the switchgear area and fixed at the correct height.

Dropper bars:

- center-to-center distance between phases 60 mm
- rated current I_n 1000 and 2000 A
- rated short-time withstand current I_{CW} up to 80 kA

Cable connection area:

- cable connection has to be done on the right side of the distribution section, outgoing cables can be inserted either from the bottom or from the top
- cable strain relief rails on the right side of the cabinet ensure a neat and safe guidance of outgoing cables
- access to the cable connection area is provided through a separate door to the cable connection area which is fully sealed off from busbar areas and the switchgear area
- vertical PE, N or PEN rails are mounted in the cable connection area and can be equipped with connections for any outgoing cable

Modules:

- Each module can be individually equipped, depending on whether you need a direct starter module or a reverse starter combination. Setup and dimensioning have to be done according to the enclosed instructions (AWA and BA).
- A detailed circuit / wiring plan provides information on the correct way of wiring the switchgear in the module
- The front covers of each module come with numerous punch holes and cut-outs so as to allow the individual integration options for all the required control units to be accommodated in each module
- Main-current contacting of the modules is done through plug-type contact terminals in line with the corresponding rating; these terminals are directly mounted on the shelf-board.
- Contacting the control lines is done via a plug-type terminal block which sticks out into the cable connection area. From there it is easy to do the control wiring in an extremely convenient way.

xEnergy Switchboards

XW Outgoing Sections for Motor Control Centers in fully withdrawable design

Finishes of the module fronts:

Module fronts are available in two different materials:
In plastic and in metal.

Plastic front:

The plastic front can be hooked onto the module using a metal front plate and then be screw-fixed. This method creates a firm, screwed connection between the front and the module body. For wiring or for service jobs - which require access to the drawer

Metal front:

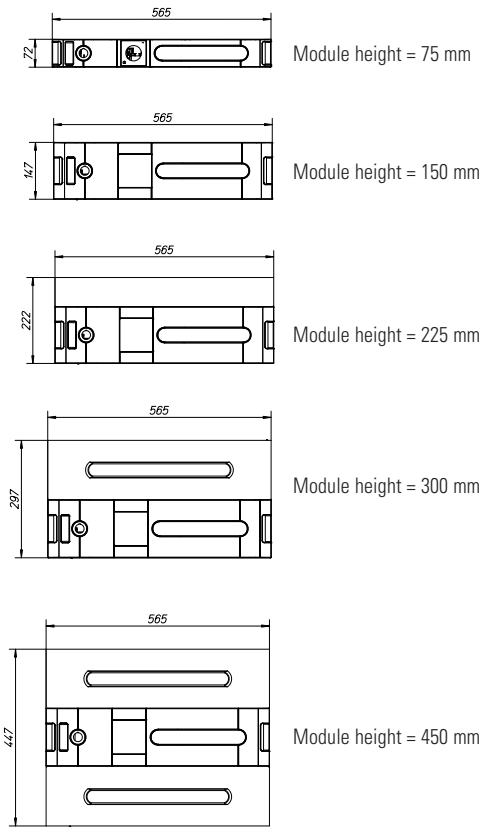
The metal front will be supplied as one unit together with the base plate/frame. The base frame is firmly screw-fixed to the module. The front as such is set up like a door with hinges and will therefore provide free access to all components positioned behind it as well as to the corresponding wiring. To meet IP 55 requirements, the

metal carrier frame is equipped with a heat-applied polyurethane 2-component foam sealing. For IP 31 or IPP 55 the door is designed with sealing, so the sealing area between the carrier frame and the door is neatly sealed.

metal carrier frame is equipped with a heat-applied polyurethane 2-component foam sealing. For IP 31 or IPP 55 the door is designed with sealing, so the sealing area between the carrier frame and the door is neatly sealed.

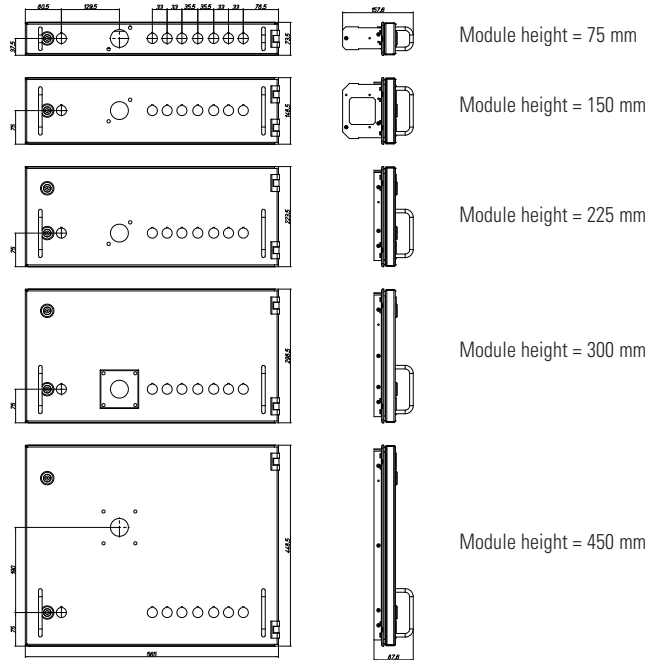
Dimensions of the module fronts:

Plastic front:



xE_MCC_2_

Metal front:



MCC_MFR_1

xEnergy Switchboards

XW Outgoing sections for Motor Control Centers in withdrawable design

Setup of fixed modules:

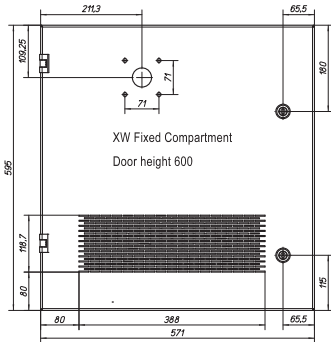
Heights 600 mm and 750 mm.

Due to their weight modules higher than 450 mm need to be fixed in the MCC cabinet and screw-fixed to it. Generally you can use the same components as with smaller modules.

Dimensions of Fixed Modules:

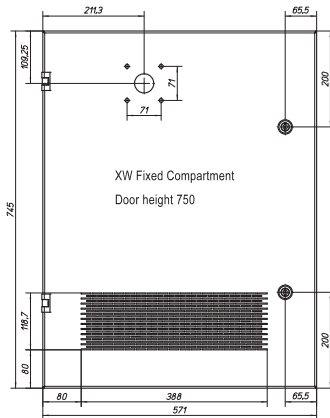
Dimensions of the doors:

Height 600 mm



MCC_Fix_H600_H750_Door

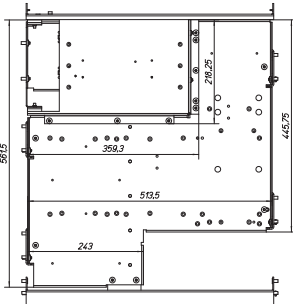
Height 750 mm



MCC_Fix_H600_H750_Door

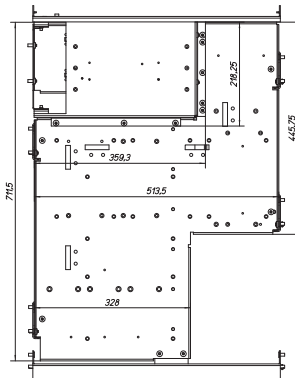
Dimensions of Fixed Modules:

**Front view of the mounting plate
Height 600 mm**



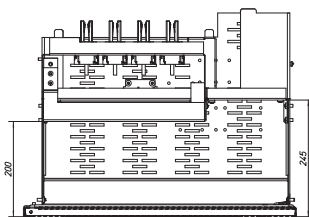
MCC_Fix_H600_H750

**Front view of the mounting plate
Height 750 mm**



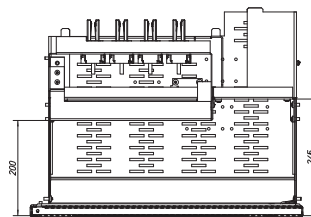
MCC_Fix_H600_H750

**Top view
Height 600 mm**



MCC_Fix_H600_H750

**Top view
Height 750 mm**



MCC_Fix_H600_H750

xEnergy Switchboards

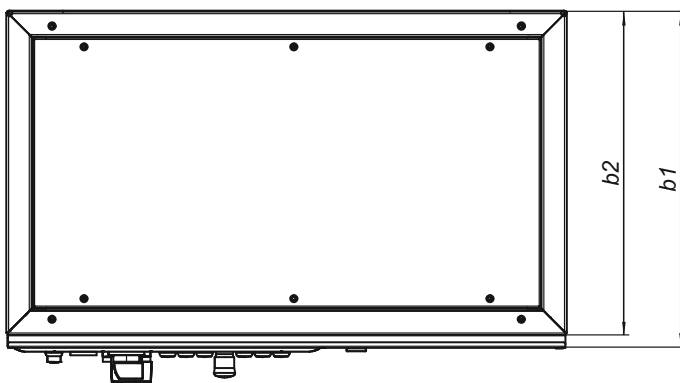
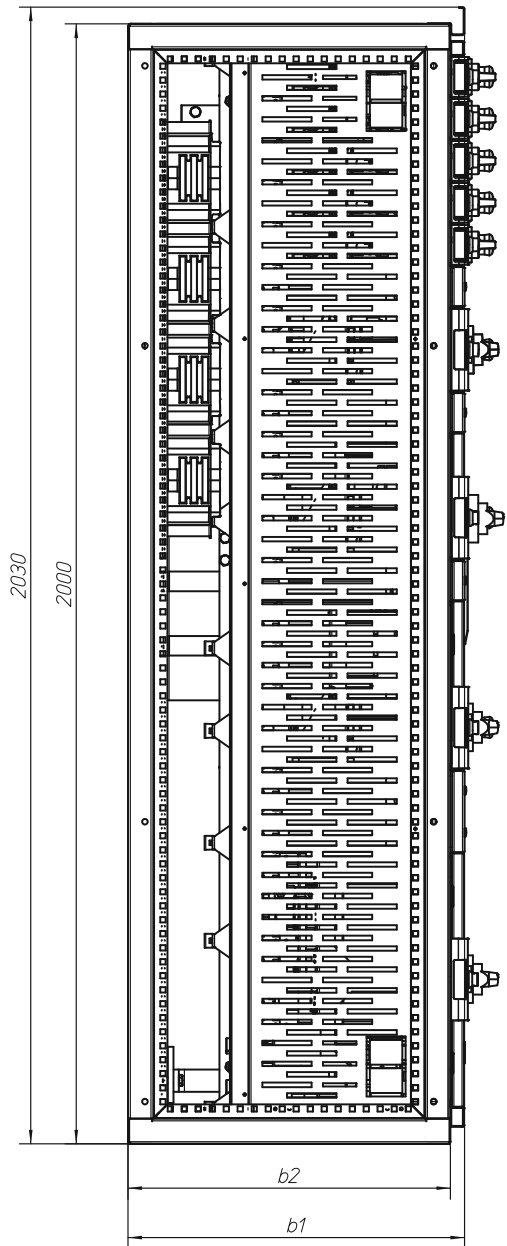
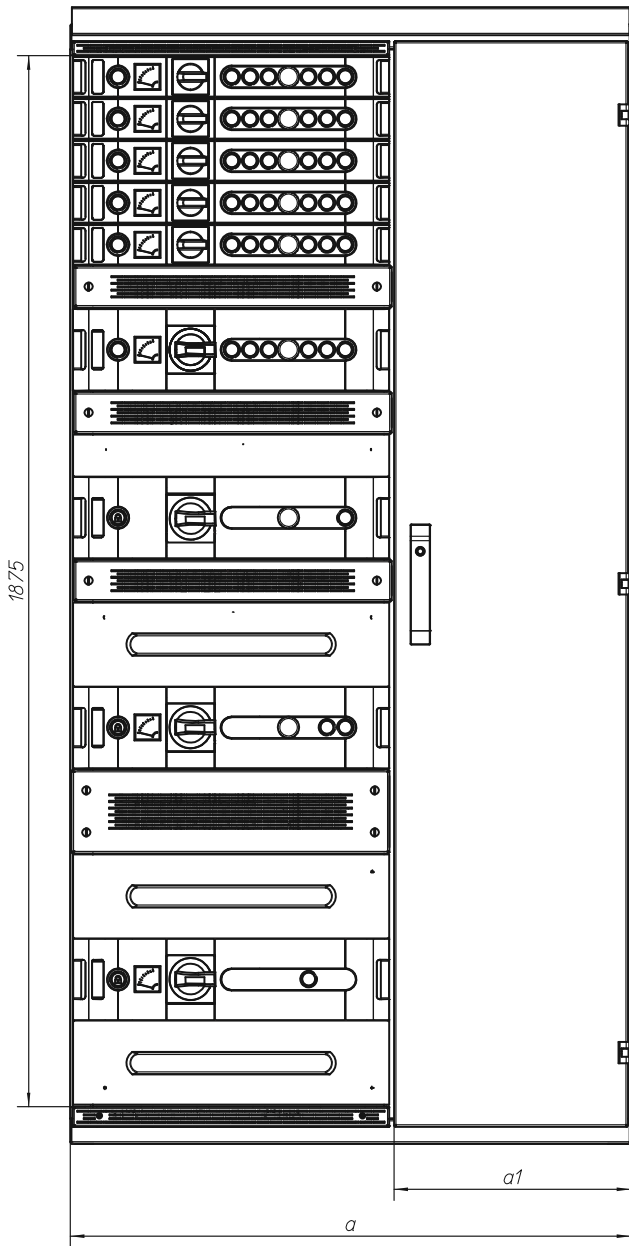
XW Outgoing sections for Motor Control Centers in withdrawable design

Overview of the different drawers listed according to module heights and performance (amperage)

IP31:				IP55:			
Module heights mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage	Module heights mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-32A	16-32A	75	FE3P	16-25A	16-25A
	DOL	3-15kW	0.06-15kW		DOL	3-11kW	0.06-11kW
	FR	3-15kW	0.06-15kW		FR	3-11kW	0.06-11kW
150	FE3P	20-200A	20-200A	150	FE3P	20-160A	20-160A
	FC3P	20-100A	20-100A		FC3P	20-80A	20-80A
	DOL	18.5-45kW	18.5-45kW		DOL	15-37kW	15-37kW
	FR	18.5-22kW	-		FR	15-18.5kW	-
225	SD	5.5-15kW	7.5-15kW	225	SD	5.5-11kW	7.5-11kW
	FE4P	20-200A	20-200A		FE4P	20-160A	20-160A
	FC3P	125A	125A		FC3P	100-125A	100-125A
	FC4P	20-125A	20-125A		FC4P	20-125A	20-125A
	DOL	55-75kW	55-75kW		DOL	45-55kW	45-55kW
300	FR	30-75kW	18.5-75kW	300	FR	22-55kW	15-55kW
	SD	18.5-22kW	-		SD	15-18.5kW	-
	FE3P	250A	250A		FE3P	200A	200A
	FE4P	250A	250A		FE4P	200A	200A
	FC3P	160-200A	160-200A		FC3P	160A	160A
450	DOL	90kW	90kW	450	DOL	75kW	75kW
	FR	-	-		FR	-	-
	SD	37-75kW	18.5-75kW		SD	22-55kW	15-55kW
	FE3P	400A	400A		FE3P	400A	400A
	FE4P	400A	400A		FE4P	400A	400A
As of a height of 600 mm, it is only possible to create a set-up with fixed modules	FC3P	250-300A	250-300A	As of a height of 600 mm. it is only possible to create a set-up with fixed modules	FC3P	250A	250A
	FC4P	160-300A	160-300A		FC4P	160-250A	160-250A
	DOL	110-160A	110-160A		DOL	90-110A	90-110A
	FR	90-110kW	90-110kW		FR	75-90kW	75-90kW
	600	FE3P	630A		630A	600	FE3P
600	FE4P	630A	630A	600	FE4P	630A	630A
	FC3P	400-630A	400-630A		FC3P	400A	400A
	FC4P	400-630A	400-630A		FC4P	400A	400A
	DOL	200-250kW	200-250kW		DOL	132-200kW	132-200kW
	FR	132-160kW	132-160kW		FR	110kW	110kW
	SD	90-250kW	90-250kW		SD	75-200kW	75-200kW
750	FR	200-250kW	200-250kW	750	FR	132-200kW	132-200kW
	SD	-	250kW		SD	250kW	250kW

xEnergy Switchboards

XW Outgoing sections for Motor Control Centers in withdrawable design - Dimensions



b1	b2
600	575
800	775

a1	a2
1000	425
1200	625

xE_ANS-MCC-Abmessungen

xEnergy Switchboards

Smart Wire in xEnergy

What is SmartWire-DT®

SmartWire-DT® is a wiring and communication system for industrial control systems; it can be used both in the electrical cabinet and in the periphery. It replaces the control wiring which up to now was necessary for the switchgear as well as the input and output components, and it connects up to 99 SmartWire-DT® participants in an SWD string. An SWD string can be expanded to up to a max. of 600 m.

For more information on SmartWire-DT® please visit:

www.eaton.com/moeller → Support

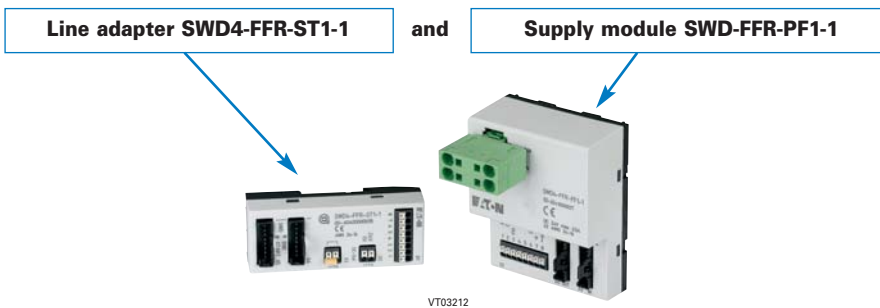
and enter the search key "Das System" ("The system") in the quick search function.

How to incorporate SmartWire-DT® in the MCC

Key requirement:

Our objective was to make it possible to replace the individual drawers during full operation without interrupting the SW-DT string and without the need to reconfigure the replaced SW-DT components.

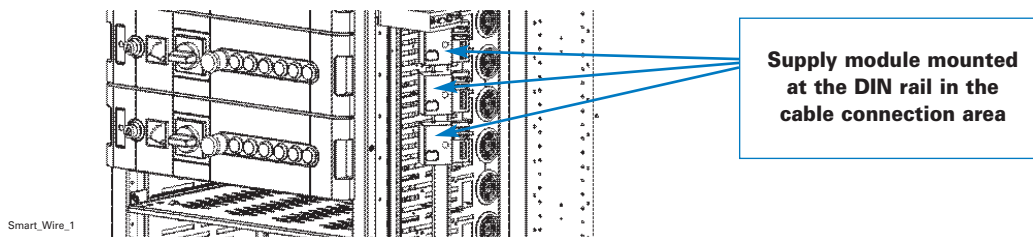
Additional equipment especially required for MCC:



Explanation of the supply module

You need to plan one supply module supplied with 24 VDC (back-up fuse max. 40 A) for each drawer. It is only thanks to this module that the pulling and pushing of the drawers is possible without any effect.

Supply modules are fixed at the DIN rail (see drawing) in the cable connection area, at the level of the drawers.



Explanation of the line adapter

You will need a line adapter for each drawer. This adapter will be connected with the supply module via the auxiliary current contacts using conventional wiring. In the drawer as such all participants are connected through the SW-DT flat cable, the beginning and the end of the flat cable must be connected with the line adapter. There is also a 24 VDC / max 2 A voltage tap available, which can be used to supply

more consumers. The line adapter also offers the possibility to interrupt the activation of contactors by using a release terminal. This is necessary if you wish to include an emergency stop button or a safety chain, for example.

Connection between supply module (SWD-FFR-PF1-1) and line adapter (SWD4-FFR-ST1-1)

The connection between these two additional devices is established by means of conventional wiring. There is no SW-DT flat cable necessary. Each device is equipped with 8 spring-type terminals which need to be

connected through auxiliary current terminals (with the same numbers).

xEnergy Switchboards

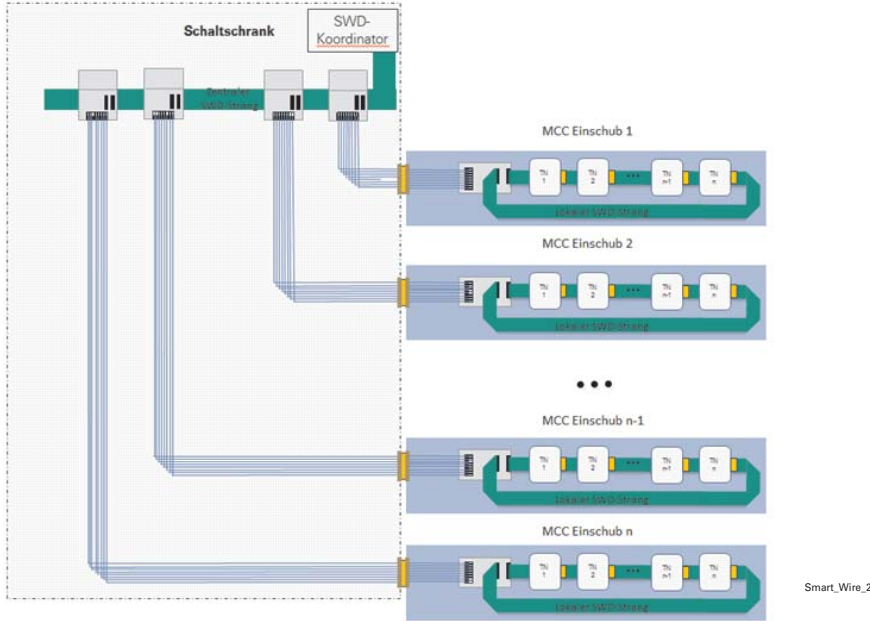
Smart Wire in xEnergy

SWD Gateway

PROFIBUS DP, CANopen, Ethernet IP and Modbus TCP-Gateways ensure the data exchange with the higher level of the control system. They provide the most important field bus connections for the most com-

mon control functions. The Gateway is positioned in the cable connection area, but it can variably be adjusted or placed there depending on the space available.

SWD Gateway



Mechanical Setup of MCC with SmarWire-DT®

Cabinet:

Generally there is no difference between sections with a SW-DT setup and normally wired MCC sections. In the cable connection area, the SWD4-FFR-PF1-1 supply module can be snapped onto the DIN rail which is also required for conventional wiring of control functions. The

Gateway is usually mounted at the vertical DIN rail, at the top or at the bottom of the cable connection area (depending on the cable routing).

Drawer

Generally you can use standard drawers. There are expansion sets available to make them Smart Wire compatible. These expansion sets exist in all drawer sizes and are compulsory if SmartWire needs to be

used in the drawers. The line adapter will be snapped onto a DIN rail included in the expansion set.

For more information on Installation and Mounting Instructions, please visit:

www.xEnergy-partner.com

xEnergy Switchboards

Soft Starter in xEnergy MCC and iMCC

For the power range from 1.1 to 15kW (3-32A) you can use soft starter solutions in XW drawer sections. The Soft Starter series DS7 sizes 1+2 are incorporated in XW drawers and tested to IEC 61439.

Technical Details

Versions:	DOL, FR (direct starter, reverse starter)
Rated short-time withstand current:	50 kA, 80 kA
Drawer heights:	75, 150, 225 mm
Versions/finishes:	
Standard	without SW-DT for normal MCC application
Basic	with SW-DT, but without reading of the circuit breaker (iMCC application)
Complete	with SW-DT and reading of the circuit breaker - electronic tripping (iMCC application)
Degree of protection:	IP31, IP55
Power:	1,5 -15 kW
Assignment type:	Type 2
Ambient temperature:	35°C

Setup/Installation

The soft starter can be installed in standard drawers where additional expansion sets can be fixed to establish the pre-requisites for soft starters. These retro-fitting sets include a DIN rail (L = depending on the

drawer height) and screws. Installation must be done according to our installation guideline (IL – XMW..06SS-161/162/163).

Electric components

Configuration of the electric components has to be done according to the XW_DS7_Drawer_Outgoing_Unit_List. This list details all the electric components necessary for the different variants of drawers.

You can find the complete documentation on our xEnergy homepage at www.xEnergy-Partner.com

Different finishes of drawers:

There are 3 different versions of drawer finishes with soft starter.

Standard: In the standard version the soft starter and all electric components are wired and controlled in the conventional way.

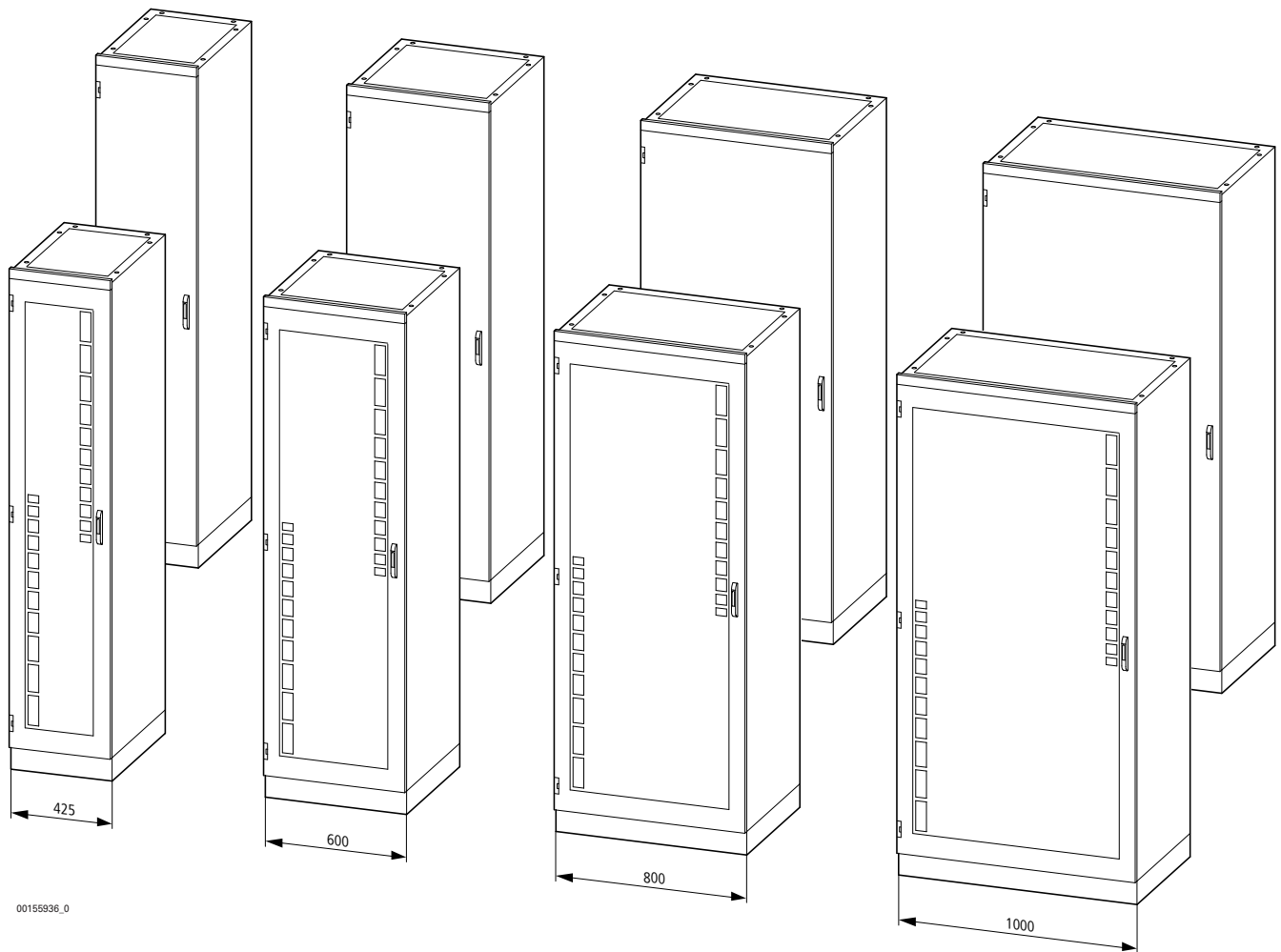
Basic: In the Basic version, the control wiring is carried out using a SmartWire-DT. There is no conventional control wiring. The circuit breaker

includes a thermomagnetic tripping unit, therefore it is not possible to make a query of the current parameters via SW-DT.

Complete: In the Complete version, a SmartWire-DT is used for control wiring. There is no conventional control wiring. As there is an electronic tripping unit incorporated in the circuit breaker, it is possible to make a query and read the status of each individual parameter at any time via the SW-DT.

xEnergy Switchboards

XG Empty sections for universal application



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Universal empty sections for the following installation possibilities:

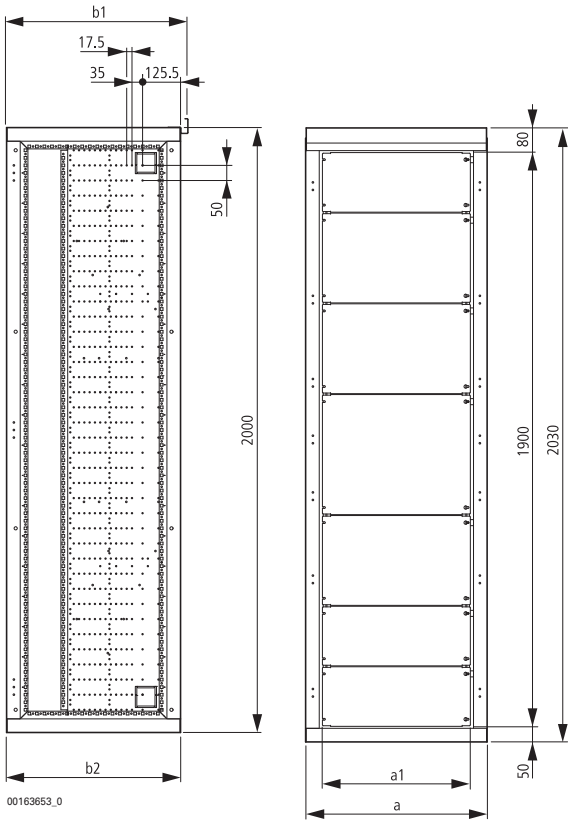
Installation distribution systems	e.g. with Eaton IVS	Product range catalogue IVS SK0207-1185 Power distribution systems or Electronic Catalogue
Switchgear adapter	e.g. with Eaton xStart	Main catalogue HPL0211, Industrial switchgear or Electronic Catalogue
Frequency converter	e.g. with Eaton DF51, DF6, DV51, DV6 and DV5/6	Main catalogue HPL0211, Automation systems and Drives or Electronic Catalogue
Soft starters	e.g. Eaton DS4, DM4 and DS6	Main catalogue HPL0211, Automation systems and Drives or Electronic Catalogue
Automation systems	e.g. with Eaton PS4, PS416, XC100, XC200 ...	Main catalogue HPL0211, Automation systems and Drives or Electronic Catalogue
Large motor starters	e.g. with Eaton contactors up to 900 kW/400 V	Main catalogue HPL0211, Industrial switchgear or Electronic Catalogue
Power factor correction	e.g. with FRAKO, KBR	Chapter Power factor correction

With a front door as high as the cabinet, ventilated, closed or transparent, right or left-hinged

xEnergy Switchboards

Dimensions - XG Empty sections

Empty XG section with fitting kit for depth-adjustable mounting plates
XSMIB20

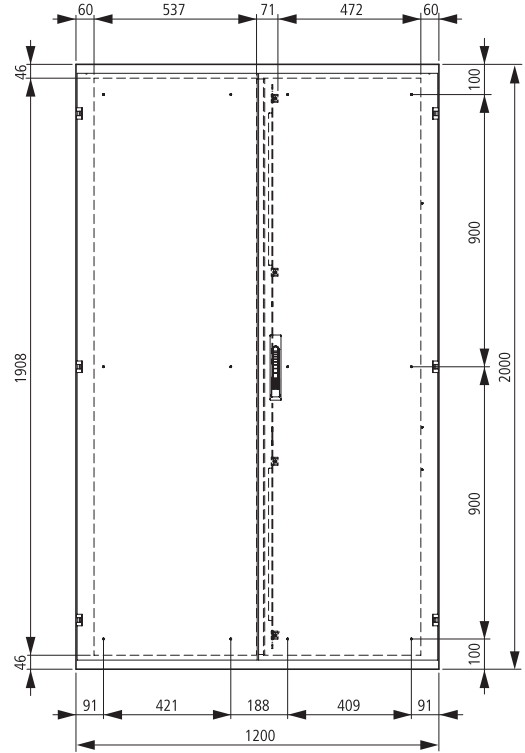


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00162329_0

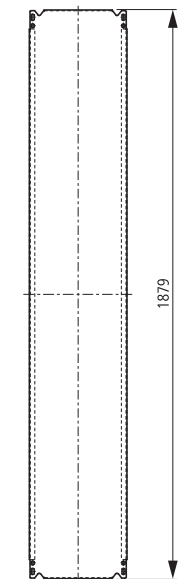
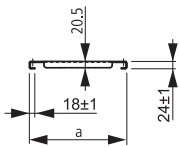
b1	b2
600	575
800	775
a	a1
425	314
600	489
800	689
1000	889

Section door 1200 mm wide
XSDMLV2012



00162339_0

Fitting kit for mounting plates as high as the section
XSMMFB20...

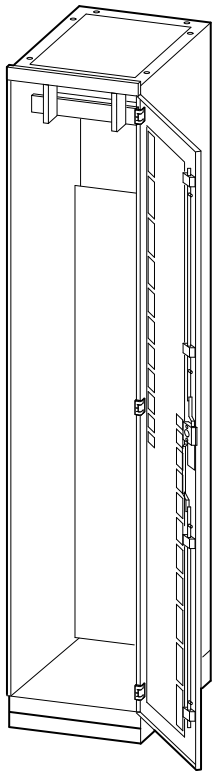


00163663_0

a
322
497
697
897
1097

xEnergy Switchboards

XG General Sections

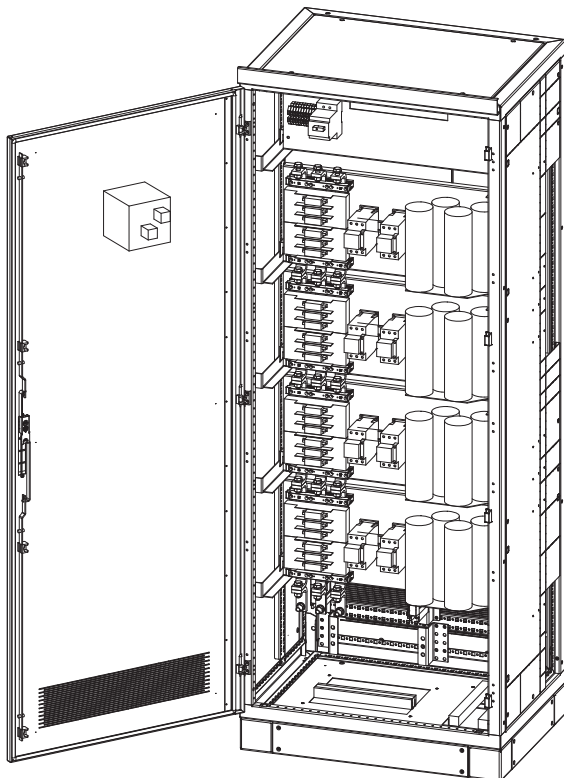


- in the widths of 425,600,800,850,1000,1100,1200 and 1350 mm
- IP31/55
- with the main busbar at the top or rear, or without any main busbar as a control distribution unit
- with mounting plate(s) in one piece or split
- as a compensation distribution unit
- suitable for integrating xBoard Profi Plus, IVS, Profi Plus EP, SASY60i

Switchgear area:

- the switchgear area can be set up individually, according to customer specifications
- whether you use a control distribution board with a mounting plate or a mounting plate in combination with SASY60i as a power or motor-distribution board, or one of the different fitting systems such as xBoard Profi Plus, IVS, Profi Plus EP - we have the right solution for every application

00163952_0



XG for power factor correction units

xE_Kompensation

xEnergy Switchboards

Planning tools

The right tool for every stage of your project

Eaton Engineering Tools support you in

- Network planning and calculation
- Preparing your offers
- Designing distribution systems
- Generating parts lists and ordering

Eaton xSpider

Proven functions for network planning and calculation

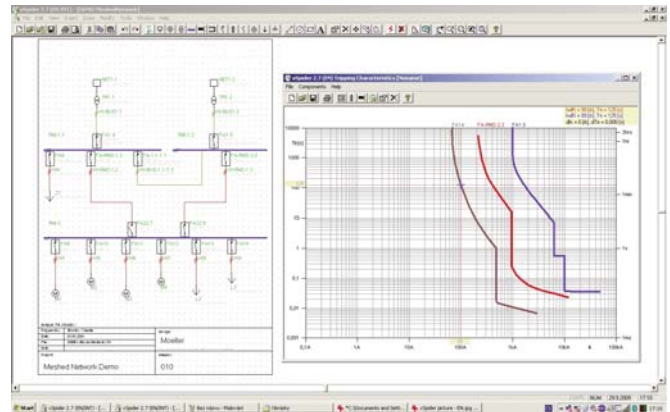
- Load flow and short-circuit calculation
- Dimensioning of the devices
- Selectivity calculation and graphic comparison
- Conformity to IEC 909 and IEC 60364 standards
- Automatic verification of data completeness

Expertise and experience

- xSpider simplifies and speeds up your job by relieving you from time-consuming routing tasks
- xSpider protects against planning errors in low-voltage networks

Functional and flexible

- easy generation of network drawings
- clearly structured database
- xSpider is the right tool for every stage of a project and for testing the existing networks



With xSpider you can plan low-voltage networks (meshed systems and radial networks) safely and without problems.

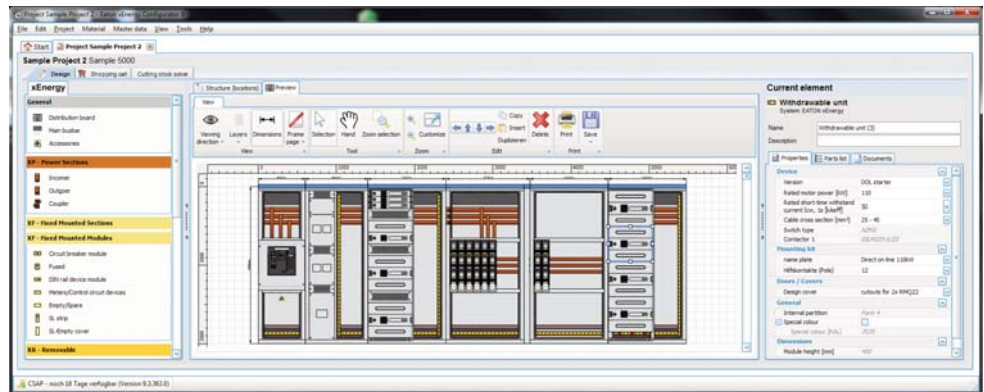
Eaton Configurator

User-friendly for the selection of xEnergy

- Windows-based dialogue guidance
- functional, self-explanatory design structure
- short familiarization time thanks to Look and Feel

Wide range of applications

- project administration and system structure
- a functions-guided system selection will automatically generate the suitable distributor
- generation of a parts list for devices, fitting kits and distributors
- generation of a front view for offers, individual adjustments through Drag and Drop



Eaton Configurator is the fastest selection tool for xEnergy.

CurveSelect

Characteristic curve program for short-circuit and overload protection tools

- Allows to display, compare and keep record of characteristic curves easily
- CurveSelect is available free of charge and allows the setting-specific display of tripping characteristics of several protective devices based on the same time and current standards. This makes it significantly easier to evaluate the interaction of NZM and IZM circuit breakers, PZK motor protectors and ZB motor protective relays, MCBs and HBC fuses.

Use this link to visit the corresponding site:
www.moeller.net/de/products_solutions/power_distribution/power_communication/curve_program/index.jsp



xEnergy Switchboards

Planning notes on power loss IZM

Calculation of effective power loss

Note:

The installed losses per section are required only where the total power loss of the switchgear system needs to be determined, e.g. for the rating of air-conditioning or ventilation systems in switch rooms.

Effective power loss:

$$P = P_{w1} + P_{w2} + P_{w3} + P_{w...}$$

Power loss at rated current of the circuit:

$$P_e = P_n \times \left(\frac{I_e}{I} \right)^2$$

Effective power loss taking into account the rated load factor α :

$$P_{w1} = P_n \times \alpha^2$$

Characters used:

P	= Total power loss
P_n	= Power loss at rated current of the equipment
P_e	= Power loss at rated current of the power circuits
$P_{w1...n}$	= Effective power loss of the equipment group
I_n	= Rated current of the equipment
I_e	= Rated current of the power circuit
α	= Rated diversity factor

xEnergy Switchboards

Planning notes on power loss with IZMX16, IZMX40

IZMX16	In in A	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	630	B = Basic	36	50
	800	B = Basic	59	80
	1000	B = Basic	92	125
	1200	B = Basic	132	180
	1600	B = Basic	235	320
	630	N = Normal	36	50
	800	N = Normal	59	80
	1000	N = Normal	92	125
	1200	N = Normal	132	180
	1600	N = Normal	235	320
	630	H = High	36	50
	800	H = High	59	80
	1000	H = High	92	125
	1200	H = High	132	180
	1600	H = High	235	320
IZMX40	In in A	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	800	B = Basic	90	135
	1000	B = Basic	135	120
	1200	B = Basic	135	180
	1600	B = Basic	225	300
	2000	B = Basic	285	345
	2500	B = Basic	300	450
	3200	B = Basic	480	720
	4000	B = Basic	750	1120
	800	N = Normal	90	135
	1000	N = Normal	90	120
	1200	N = Normal	135	180
	1600	N = Normal	225	300
	2000	N = Normal	285	345
	2500	N = Normal	300	450
	3200	N = Normal	480	720
	4000	N = Normal	750	1120
	800	H = High	90	135
	1000	H = High	90	120
	1200	H = High	135	180
	1600	H = High	225	300
	2000	H = High	285	345
	2500	H = High	300	450
	3200	H = High	480	720
	4000	H = High	750	1120

xEnergy Switchboards

Planning notes on power loss with IZM20, IZM32, IZM40

IZM20	In	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	in A			
	800	B = Basic	60	110
	1000	B = Basic	95	170
	1250	B = Basic	150	260
	1600	B = Basic	240	420
	2000	B = Basic	280	560
	800	N = Normal	45	90
	1000	N = Normal	70	140
	1250	N = Normal	110	220
	1600	N = Normal	180	360
	2000	N = Normal	280	560
IZM32	In	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	in A			
	800	B = Basic	40	85
	1000	B = Basic	60	130
	1250	B = Basic	90	200
	1600	B = Basic	150	330
	2000	B = Basic	190	330
	2500	B = Basic	200	500
	3200	B = Basic	320	800
	800	N = Normal	35	70
	1000	N = Normal	50	95
	1250	N = Normal	70	140
	1600	N = Normal	120	240
	2000	N = Normal	190	380
	2500	N = Normal	200	500
	3200	N = Normal	320	800
	800	H = High	30	60
	1000	H = High	50	95
	1250	H = High	70	140
	1600	H = High	120	240
	2000	H = High	190	380
	2500	H = High	200	500
	3200	H = High	320	800
IZM40	In	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	in A			
	4000	N = Normal	560	1100
		H = High	560	1100

xEnergy Switchboards

Planning notes on power loss with IZM63

IZM63	In in A	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	4000	N = Normal	380	750
	5000	N = Normal	400	1000
	6000	N = Normal	620	1550
	4000	H = High	380	750
	5000	H = High	400	1000
	6000	H = High	620	1550

xEnergy Switchboards

Planning notes on power loss with IZM58

IZM58	In in A	Power loss at In when fixed in W	Power loss at In when withdrawable in W
5	400	9	22
	630	22	55
	800	35	89
	1000	55	139
	1250	87	217
	1600	142	355
6	200	136	310
	2500	212	485
7	3200	202	486
	4000	317	760

xEnergy Switchboards

Planning notes on power loss with IZM13

Power loss

IZM13

Incoming supply / outgoers / couplers 630 - 4000 A with IZM-Circuit breaker

Rated current of circuit breakers A	Power loss in W Fixed	Power loss in W Withdrawable
630	100	195
800	100	195
1000	100	195
1250	105	205
1600	170	350
2000	180	320
2500	270	520
3200	410	710
4000	520	810

xEnergy Switchboards

Planning notes on power loss with NZM

NZM1-Circuit breakers

Rated current In in A	Power loss in W Fixed
20	9.8
25	8.8
32	9.3
40	10.7
50	13.2
63	14.2
80	16.3
100	21.9
125	26.7
160	36.1

With plug base NZM1

Rated current In in A	P in W	R in $\mu\Omega$
125	14	300

NZM3-Circuit breakers

Rated current In in A	Power loss in W Fixed
250	68
320	79
500	93
630	119

With withdrawable system NZM3

Rated current In in A	P in W	R in $\mu\Omega$
630	83	70

NZM4-Circuit breakers

Rated current In in A	Power loss in W Fixed
1600	284.2

With withdrawable system NZM4

Rated current In in A	P in W	R in $\mu\Omega$
1600	77	10

NZM2-Circuit breakers

Rated current In in A	Power loss in W Fixed
1.2	-
1.6	-
2	-
2.4	-
3	-
5	-
8	-
12	-
15	-
18	-
20	5.1
25	8
26	-
30	-
32	9.6
33	-
35	-
40	13.4
45	-
50	17
60	-
63	20.2
70	-
80	20.5
90	-
100	25.7
110	-
125	27.6
150	-
160	38.4
175	-
200	48
225	-
250	58.1
300	83.7

With plug base NZM2

Rated current In in A	P in W	R in $\mu\Omega$
250	19	100

Notes

The values listed in the table are valid for 3 and 4 pole devices with fixed installation under equal load. With 4-pole devices the current in the N conductor is zero. The total ohmic resistance is the value measured for a 3 or 4 pole circuit breaker. The total power loss is the value measured at I_n 50/60 Hz for a 3 or 4 pole circuit breaker. Power loss can be calculated using the formula: $P = 3 \times R \times I^2$

xEnergy Switchboards

Planning notes on power loss with PIFT, SL, motor starters, power factor correction

Outgoers with PIFT switch fuse units with h.b.c. fuses up to 630 A

Size NH / Rated current in A	Power loss in W Double break feature
00/160	72,9
1/250	114
2/400	195
3/630	380

Outgoers with SL fuse switch disconnectors with h.b.c. fuses up to 630 A

Size NH / Rated current in A	Power loss in W
00/160	54
1/250	119
2/400	184
3/630	254

Motor starters

Motor rating at AC-3/400 V kW	Power loss W
11	10
18.5	20
30	20
45	40
75	60
110	70
160	80
200	130

Power factor correction

	Power loss W
choked	8/kvar
non-choked	2/kvar

xEnergy Switchboards

Planning notes for Power Loss (Pv) of the Different Drawer Modules for Withdrawable Design in IP31

IP55 on request.

The power loss specified includes all switchgear at the max. development stage.

Power outgoing	Power loss Pv in W	Power outgoing with contactors	Power loss Pv in W	Direct starters	Power loss Pv in W
FE3P 100A 50kA	40,0	FC3P 100A 50kA	52,0	DOL 0,06kW 80kA	4,6
FE3P 100A 80kA	40,0	FC3P 100A 80kA	52,0	DOL 0,09kW 80kA	4,3
FE3P 125A 50kA	54,3	FC3P 125A 50kA	62,5	DOL 0,12kW 80kA	3,8
FE3P 125A 80kA	54,3	FC3P 125A 80kA	62,5	DOL 0,18kW 80kA	6,0
FE3P 160A 50kA	76,8	FC3P 160A 50kA	91,4	DOL 0,25kW 80kA	5,1
FE3P 160A 80kA	76,8	FC3P 160A 80kA	91,4	DOL 0,37kW 80kA	4,3
FE3P 16A 50kA	9,3	FC3P 200A 50kA	124,3	DOL 0,55kW 80kA	6,7
FE3P 16A 80kA	3,3	FC3P 200A 80kA	124,3	DOL 0,75kW 80kA	4,4
FE3P 200A 50kA	106,9	FC3P 20A 50kA	16,4	DOL 1,1kW 80kA	3,6
FE3P 200A 80kA	106,9	FC3P 20A 80kA	16,4	DOL 1,5kW 80kA	5,8
FE3P 20A 50kA	14,8	FC3P 250A 50kA	169,2	DOL 110kW 50kA	108,6
FE3P 20A 80kA	14,8	FC3P 250A 80kA	169,2	DOL 110kW 80kA	108,6
FE3P 250A 50kA	137,9	FC3P 25A 50kA	18,6	DOL 11kW 50kA	10,9
FE3P 250A 80kA	137,9	FC3P 25A 80kA	18,6	DOL 11kW 80kA	8,3
FE3P 25A 50kA	10,3	FC3P 300A 50kA	220,9	DOL 132kW 50kA	113,0
FE3P 25A 80kA	10,3	FC3P 300A 80kA	220,9	DOL 132kW 80kA	113,0
FE3P 25A 80kA	5,9	FC3P 32A 50kA	21,5	DOL 15kW 50kA	15,8
FE3P 25A 80kA	5,9	FC3P 32A 80kA	21,5	DOL 15kW 80kA	13,2
FE3P 300A 50kA	198,6	FC3P 400A 50kA	235,8	DOL 160kW 50kA	122,8
FE3P 300A 80kA	198,6	FC3P 400A 80kA	235,8	DOL 160kW 80kA	122,8
FE3P 32A 50kA	13,5	FC3P 40A 50kA	28,8	DOL 18,5kW 50kA	30,2
FE3P 32A 50kA	13,5	FC3P 40A 80kA	28,8	DOL 18,5kW 80kA	21,7
FE3P 32A 80kA	9,6	FC3P 50A 50kA	34,2	DOL 2,2kW 80kA	5,3
FE3P 32A 80kA	9,6	FC3P 50A 80kA	34,2	DOL 200kW 50kA	174,7
FE3P 400A 50kA	229,7	FC3P 630A 50kA	537,2	DOL 200kW 80kA	174,7
FE3P 400A 80kA	229,7	FC3P 630A 80kA	537,2	DOL 22kW 50kA	30,1
FE3P 40A 50kA	17,8	FC3P 63A 50kA	42,8	DOL 22kW 80kA	23,6
FE3P 40A 80kA	17,8	FC3P 63A 80kA	42,8	DOL 250kW 50kA	263,6
FE3P 50A 50kA	21,9	FC3P 80A 50kA	60,3	DOL 250kW 80kA	263,6
FE3P 50A 80kA	21,9	FC3P 80A 80kA	60,3	DOL 30kW 50kA	25,1
FE3P 630A 50kA	450,2	FC4P 100A 50kA	52,0	DOL 30kW 80kA	33,2
FE3P 630A 80kA	450,2	FC4P 100A 80kA	52,0	DOL 37kW 50kA	29,6
FE3P 63A 50kA	27,4	FC4P 125A 50kA	62,5	DOL 37kW 80kA	32,4
FE3P 63A 80kA	27,4	FC4P 125A 80kA	62,5	DOL 3kW 50kA	5,6
FE3P 80A 50kA	28,1	FC4P 160A 50kA	91,4	DOL 3kW 80kA	4,0
FE3P 80A 80kA	28,1	FC4P 160A 80kA	91,4	DOL 45kW 50kA	38,5
FE4P 100A 50kA	40,0	FC4P 200A 50kA	124,3	DOL 45kW 80kA	38,5
FE4P 100A 80kA	40,0	FC4P 200A 80kA	124,3	DOL 4kW 50kA	7,5
FE4P 125A 50kA	54,3	FC4P 20A 50kA	16,4	DOL 4kW 80kA	5,0
FE4P 125A 80kA	54,3	FC4P 20A 80kA	16,4	DOL 5,5kW 50kA	9,9
FE4P 160A 50kA	76,8	FC4P 250A 50kA	169,2	DOL 5,5kW 80kA	7,3
FE4P 160A 80kA	76,8	FC4P 250A 80kA	169,2	DOL 55kW 50kA	38,5
FE4P 200A 50kA	106,9	FC4P 25A 50kA	18,6	DOL 55kW 80kA	38,5
FE4P 200A 80kA	106,9	FC4P 25A 80kA	18,6	DOL 7,5kW 50kA	9,6
FE4P 20A 50kA	14,8	FC4P 300A 50kA	220,9	DOL 7,5kW 80kA	7,7
FE4P 20A 80kA	14,8	FC4P 300A 80kA	220,9	DOL 75kW 50kA	66,6
FE4P 250A 50kA	137,9	FC4P 32A 50kA	21,5	DOL 75kW 80kA	66,6
FE4P 250A 80kA	137,9	FC4P 32A 80kA	21,5	DOL 90kW 50kA	78,7
FE4P 25A 50kA	13,7	FC4P 400A 50kA	235,8	DOL 90kW 80kA	78,7
FE4P 25A 80kA	13,7	FC4P 400A 80kA	235,8		
FE4P 300A 50kA	198,6	FC4P 40A 50kA	28,8		
FE4P 300A 80kA	198,6	FC4P 40A 80kA	28,8		
FE4P 32A 50kA	16,9	FC4P 50A 50kA	34,2		
FE4P 32A 80kA	16,9	FC4P 50A 80kA	34,2		
FE4P 400A 50kA	229,7	FC4P 630A 50kA	537,2		
FE4P 400A 80kA	229,7	FC4P 630A 80kA	537,2		
FE4P 40A 50kA	17,8	FC4P 63A 50kA	42,8		
FE4P 40A 80kA	17,8	FC4P 63A 80kA	42,8		
FE4P 50A 50kA	21,9	FC4P 80A 50kA	60,3		
FE4P 50A 80kA	21,9	FC4P 80A 80kA	60,3		
FE4P 630A 50kA	450,2				
FE4P 630A 80kA	450,2				
FE4P 63A 50kA	27,4				
FE4P 63A 80kA	27,4				
FE4P 80A 50kA	28,1				
FE4P 80A 80kA	28,1				

xEnergy Switchboards

Planning notes for Power Loss (PV) of the Different Drawer Modules for Withdrawable Design (Cont.) in IP31

IP55 on request.







The power loss specified includes all switchgear at the max. development stage.

Reverse starters	Power loss Pv in W	Star/Delta	Power loss Pv in W
FR 0,06kW 80kA	6,3	SD 110kW 50kA	-
FR 0,09kW 80kA	5,9	SD 110kW 80kA	-
FR 0,12kW 80kA	5,2	SD 11kW 50kA	-
FR 0,18kW 80kA	8,1	SD 11kW 80kA	-
FR 0,25kW 80kA	6,9	SD 132kW 50kA	-
FR 0,37kW 80kA	5,9	SD 132kW 80kA	-
FR 0,55kW 80kA	9,1	SD 15kW 50kA	-
FR 0,75kW 80kA	5,9	SD 15kW 80kA	-
FR 1,1kW 80kA	4,8	SD 160kW 50kA	-
FR 1,5kW 80kA	7,8	SD 160kW 80kA	-
FR 110kW 50kA	146,7	SD 18,5kW 50kA	-
FR 110kW 80kA	146,7	SD 18,5kW 80kA	-
FR 11kW 50kA	14,8	SD 200kW 50kA	-
FR 11kW 80kA	11,2	SD 200kW 80kA	-
FR 132kW 50kA	152,7	SD 22kW 50kA	-
FR 132kW 80kA	152,7	SD 22kW 80kA	-
FR 15kW 50kA	21,3	SD 250kW 50kA	-
FR 15kW 80kA	17,8	SD 250kW 80kA	-
FR 160kW 50kA	166,0	SD 30kW 50kA	-
FR 160kW 80kA	166,0	SD 30kW 80kA	-
FR 18,5kW 50kA	40,8	SD 37kW 50kA	-
FR 18,5kW 80kA	29,3	SD 37kW 80kA	-
FR 2,2kW 80kA	7,2	SD 45kW 50kA	-
FR 200kW 50kA	236,0	SD 45kW 80kA	-
FR 200kW 80kA	236,0	SD 5,5kW 50kA	-
FR 22kW 50kA	40,6	SD 55kW 50kA	-
FR 22kW 80kA	31,9	SD 55kW 80kA	-
FR 250kW 50kA	356,0	SD 7,5kW 50kA	-
FR 250kW 80kA	356,0	SD 7,5kW 80kA	-
FR 30kW 50kA	33,9	SD 75kW 50kA	-
FR 30kW 80kA	44,9	SD 75kW 80kA	-
FR 37kW 50kA	39,9	SD 90kW 50kA	-
FR 37kW 80kA	43,7	SD 90kW 80kA	-
FR 3kW 50kA	7,6		
FR 3kW 80kA	5,4		
FR 45kW 50kA	52,0		
FR 45kW 80kA	52,0		
FR 4kW 50kA	10,1		
FR 4kW 80kA	6,7		
FR 5,5kW 50kA	13,4		
FR 5,5kW 80kA	9,8		
FR 55kW 50kA	51,9		
FR 55kW 80kA	51,9		
FR 7,5kW 50kA	13,0		
FR 7,5kW 80kA	10,4		
FR 75kW 50kA	89,9		
FR 75kW 80kA	89,9		
FR 90kW 50kA	105,1		
FR 90kW 80kA	105,1		

xEnergy Switchboards

Max. installable power loss Pv in W depending on the size and positioning of the enclosure

- Calculation according to EN60890
- No horizontal partitionings
- Ambient temperature 35°C

Degree of prot. IP55			Max. power loss Pv in W					
Dimensions in mm			Wall-mounted			Stand-alone		
W	D	H	Enclosure	End enclosure	Center encl.	Enclosure	End enclosure	Center enclosure
								
425	400	2000	263	235	202	301	262	232
425	600	2000	383	342	281	395	369	312
425	800	2000	465	423	375	483	433	393
425	1000	2000	565	514	468	594	540	492
600	400	2000	374	322	285	383	367	342
600	600	2000	453	425	404	483	446	415
600	800	2000	575	517	473	581	547	489
600	1000	2000	649	590	537	682	620	564
800	400	2000	424	410	398	466	444	424
800	600	2000	556	517	487	581	566	521
800	800	2000	649	627	579	669	638	612
800	1000	2000	736	670	610	773	704	641
850	400	2000	444	428	417	492	468	447
850	600	2000	585	542	510	600	582	551
850	800	2000	668	645	608	691	659	631
850	1000	2000	758	690	628	796	725	660
1000	400	2000	505	486	471	553	550	522
1000	600	2000	629	617	584	658	638	620
1000	800	2000	724	697	679	762	723	690
1000	1000	2000	826	751	683	868	789	718
1100	600	2000	662	648	641	699	676	656
1100	800	2000	763	733	713	812	769	732
1100	1000	2000	874	795	723	918	835	760
1200	600	2000	694	680	672	742	717	694
1200	800	2000	803	771	748	866	818	776
1200	1000	2000	926	842	766	973	885	805
1350	600	2000	746	729	719	811	781	755
1350	800	2000	868	830	803	955	898	849
1350	1000	2000	1010	919	836	1061	965	878

Degree of protection IP31 on next page

xEnergy Switchboards

Max. installable power loss P_v in W depending on the size and positioning of the enclosure

Degree of prot. IP31 Max. power loss P_v in W

Dimensions in mm			Wall-mounted			Stand-alone		
W	D	H	Enclosure	End enclosure	Center encl.	Enclosure	End enclosure	Center enclosure
425	400	2000	473	423	364	542	472	418
425	600	2000	689	616	506	711	664	562
425	800	2000	837	761	675	869	779	707
425	1000	2000	1017	926	843	1070	972	886
600	400	2000	673	580	513	689	661	616
600	600	2000	815	765	727	869	803	747
600	800	2000	1035	931	851	1046	985	880
600	1000	2000	1169	1062	967	1228	1116	1016
800	400	2000	700	677	657	769	733	700
800	600	2000	917	853	804	959	934	860
800	800	2000	1071	1035	955	1104	1053	1010
800	1000	2000	1215	1106	1007	1276	1162	1058
850	400	2000	733	706	688	812	772	738
850	600	2000	965	894	842	990	960	909
850	800	2000	1102	1064	1003	1140	1087	1041
850	1000	2000	1251	1139	1037	1314	1197	1089
1000	400	2000	793	763	739	868	864	820
1000	600	2000	988	969	917	1033	1002	973
1000	800	2000	1137	1094	1066	1196	1135	1083
1000	1000	2000	1297	1180	1073	1363	1239	1128
1100	600	2000	1039	1017	1006	1097	1061	1030
1100	800	2000	1198	1151	1119	1275	1207	1149
1100	1000	2000	1373	1249	1136	1442	1311	1194
1200	600	2000	1041	1020	1008	1113	1076	1041
1200	800	2000	1205	1157	1122	1299	1227	1164
1200	1000	2000	1389	1263	1149	1460	1328	1208
1350	600	2000	1119	1094	1079	1217	1172	1133
1350	800	2000	1302	1245	1205	1433	1347	1274
1350	1000	2000	1515	1379	1254	1592	1448	1317

Conversion factors for other ambient temperatures

Ambient temperature	25°C	45°C
Increase/decrease factor of P_v	1,4	0,6

Decrease factors for horizontal separation panels

Number of internal horizontal separation panels	0	1	2	3
Decrease factor of P_v	1	0,94	0,84	0,72

xEnergy Switchboards

Planning notes on weights

Weights for fully equipped distribution sections

All weight details are based on weights of representative sample sections.

Incoming supply sections/Outgoing sections with IZM circuit breakers

XP	1600 A	280 kg
	2500 A	360 kg
	3200 A	550 kg
	4000 A	650 kg
	5000 A	1000 kg

Outgoing sections

XF	500 kg
XF (SL)	350 kg
XR (PIFT)	700 kg
XW	700 kg

xEnergy Switchboards

Further information - project checklist

Project:

Project number:

Name of switchgear system:

Date:

Customer:

Planner:

Phone:

e-mail:

Place of installation:

Type of company:

Ambient temperature: 35°C

Standards: IEC/EN 60439-1 IEC/EN 61439-2

Rated operational voltage: 400 V V

Frequency: 50 Hz Hz

Transformer power: kVA

Rated incoming current: A

Rated short-time withstand current of the main busbars I_{cw} (1 s) kA

.....

Degree of protection: IP31 IP55

Internal separation: Form

With bottom panels: yes no

Network system configuration: TN-C TN-S TN-C-S TT IT

half full

Control voltage AC: V

external internal kVA

Control voltage DC: V

external internal kVA

Control wiring mm²

Wire end labels

Space reserves %

Max. permitted distribution system dimensions W x H x D mm

Room height mm

Max. transport dimensions W x H x D mm

Arc fault protection conventional

xEnergy Switchboards

Further information - tender text

· Ready to connect, steel-encapsulated low-voltage switchgear system in multiple control panel design with type-tested installation systems to IEC/EN 60439-1 (VDE 0660 part 500).

Low-voltage switchgear assemblies design-verified according to IEC/EN 61439-2 (VDE 0660 part 600-2).

· The following descriptions are calculation-related and contractual elements. They are to be considered with the descriptions of the individual systems and the equipment, even when they are not mentioned in detail.

· Cabinet systems consisting of individual add-on sections of the same type in torsion-resistant steel profile design, made of electrolytically galvanized 2 mm thick steel sections, with internal pre-drilled holes at 25 mm intervals to DIN 43660, structured powder spray paint RAL 7035 light grey.

· Removable external panelling, made of 1.5 mm electrolytically galvanized sheet steel, structured powder spray paint RAL 7035 light grey.

· All construction parts for internal setup are hot-galvanized and feature pre-drilled holes at 25 mm intervals to DIN 43660.

· Plinth 100/200 mm high, electrolytically galvanized, powder-coated in RAL 7035 light grey, with removable front, side and rear panels. The plinth must be suitable for direct transport with the respective tools.

· Switchboard cabinets accessible from the front through inlying doors with external hinges. 180° door opening angle. Door lock with espagnolette lock, 4 point locking and two-way key bit lock. To be actuated with a clip-down handle for half cylinder safety lock.

· Degree of protection: IP31 to DIN EN 60529
IP55 with sealed door

· Protective measures: with protective conductor, protection class I

· Rated insulation voltage: 690 V

· Overvoltage category: III

· Degree of pollution: 3

· Rated operational voltage: V

· Frequency: Hz

· Control voltage AC/DC: V

· Busbar rated current: A

· Rated short-time withstand current I_{cw} kA/s

· Network system configuration

· Busbars (number), conductor labelling

· Max. dimensions allowed

Width

Height

Depth

· Largest transport unit allowed

Width

Height

Depth

· All transport units feature removable lifting eyebolts.

· Equipment of the switchgear system with the following components, fixed installation method:

.....
.....
.....
.....

Fully assembled switchgear system described above, ready to connect and prewired, subject to 100% ex-factory test to IEC/EN 60439 part 1. The test protocol is part of the documentation. (Wiring/connection certificate according to IEC/EN 61439-2)

· Manufactured by Eaton

· Type xEnergy

xEnergy Switchboards

Further information on TTAs conforming to IEC/EN 60439-1

The safety standard for low-voltage switchgear assemblies¹⁾

The requirements placed on low-voltage switchgear with regard to heat dissipation, increased packing density, control of high short-circuit currents and insulation capacity have considerably increased over the past years.

Rated currents of up to 6000 A and high short-circuit ratings with rated short-time withstand currents of up to 100 kA are no longer unusual.

Their compact design, the integration of electronic components and supply networks subject to powerful harmonics require precise rating and testing of switchgear systems.

Safe operation of a low-voltage switchgear assembly is only ensured where the manufacturer complies with the appropriate standard for the assembly in question and provides evidence of its compliance.

Only switchgear systems that comply with the current standards meet today's safety regulations.

¹⁾ The information provided in this page reflects the information supplied in a brochure of the ZVEI (German electrical and electronic manufacturers) concerning this topic.

Current standards are:

IEC/EN 60439-1, VDE 0660 part 500;

Low-voltage switchgear assemblies

Type-tested and partially type-tested assemblies

These standards are identical in terms of content. They show two options for the manufacturing of switchgear assemblies:

- Type-tested assemblies (TTA)
- Partially type-tested assemblies (PTTA)

Type-tested assembly (TTA)

In assemblies of this sort, all components are type-tested separately and in their functional state, including all electrical and mechanical connections.

Where other devices are used for switching and protecting, it is a prerequisite that the technical data are at least the same or better (argument by analogy).

Partially type-tested assembly (PTTA)

Both type-tested and non-type-tested components are comprised in this type of assembly. Non-type-tested components must be based on type-tested ones.



Required proof of adherence to standards

Requirement to be tested	Proof for TTA produced by	Proof for PTTA produced by
1. Temperature-rise limit	Test	Test or extrapolation
2. Insulation resistance	Test	Test
3. Short-circuit rating	Test	Test or extrapolation
4. Effectiveness of the protective conductor	Test	Test
5. Creepage distance and clearances	Test	Test
6. Mechanical function	Test	Test
7. IP Degree of protection	Test	Test

For type-tested assemblies each proof needs to be produced by testing. For partially type-tested assemblies there are two exceptions:

- a) Proof of compliance with temperature-rise limits. For switchgear with a maximum input current of 3150 A, this proof can also be provided by means of extrapolation or calculation performed in accordance with DIN VDE 0660 part 507.
- b) Proof of the short-circuit rating is not required for switchgear assemblies that are protected by a current-limiting protective device and where the let-through current is ≤ 15 kA .

Where an extrapolation or calculation to DIN VDE 0660 part 509 is necessary, this is always

based on values derived from type-tested busbar systems.

Only where all verified information has been clearly produced, the terms type-tested switchgear and controlgear assemblies (TTA) and partially type-tested switchgear and controlgear assemblies (PTTA) may be used. Such assemblies correspond to the valid safety regulations.

xEnergy is a type-tested low-voltage switchgear and controlgear assembly (TTA)

Type-testing is carried out at Eaton's independent, accredited test laboratory.

Quality assurance is undertaken in accordance with a certified quality assurance system (ISO 9001/EN 29001). xEnergy provides tested and verifiable safety and consistently high quality at the same time.

xEnergy Switchboards

Further information - checklist for low-voltage switchgear and controlgear assemblies

Checklist for TTA

for a low-voltage switchgear and controlgear assembly to IEC/EN 60439-1, IEC/EN 60439-2 and IEC/EN 60439-3
DIN VDE 0660, part 500, 502 and 504

Special application conditions according to

Customer:

Unit:

Order no.:

Routine tests

No.	Type of test	Tests	VDE 0660 Part 500 Section	Result	Tester	
1	-	Type-test	8.2.1.- 8.2.7	Test passed		
2	P	Mechanical functions test (actuators, interlocks etc.)	8.3.1			
3	S	Switchgear mounted to standard				
4	S	Correct cable routine				
5	S/P	Degree of protection of the enclosure				
6	S/P	Clearances, creepage distances and spacings				
7	P	Connections between components, between conductors and between conductors and their devices (random testing of tightening torques)				
8.1	P/V	Conformance of the wiring with the circuit documentation				
8.2	V	Conformance of labels, markings, completeness of instruction leaflets etc. with the circuit diagrams and other documentation				
9	P	Insulation test		8.3.2		
10	S/P	Protective measures and continuity of earth		8.3.3		
11	P	Electrical function test (where expressly required)		8.3.1		

Key:

- S = Visual inspection for compliance with requirements
- P = Inspection - manually or with mechanical or electrical measuring equipment
- V = Comparison with production specifications

Date

Signature
(Head of the construction unit within the organization)

xEnergy Switchboards

Further information - checklist for low-voltage switchgear and controlgear assemblies

Checklist for PTTA

for a low-voltage switchgear and controlgear assembly to IEC/EN 60439-1, IEC/EN 60439-2 and IEC/EN 60890 (HD528 S1) DIN VDE 0660, part 500, 502 and 507

Special application conditions according to

Customer:

Unit:

Order no.:

Verification / Tests

No.	Requirements to be tested	VDE 0660 Part 500 Section	Tests	Result	Tester	
1	Temperature-rise limit	8.2.1.	Tests	Verification of conformance to temperature-rise limit by means of testing, extrapolation from TTA or by determining in accordance with VDE 0660 part 507		
2	Insulation resistance	8.2.2		See No. 10/		
3	Short-circuit rating	8.2.3		Verification of short-circuit rating by testing or extrapolation of similar type-tested layouts		
4	Effectiveness of the protective circuit	8.2.4		Verification of the correct connection between components in the switchgear assembly and the protective circuit by means of visual inspection or resistance tests		
	Correct connection between components of the switchgear combination and the protective circuit	8.2.4.1				
	Short-circuit rating of the protective circuit	8.2.4.2				
5	Clearances and creepage distances	8.2.5		Verification of clearances and creepage distances		
6	Mechanical function	8.2.6		Verification of mechanical function		
7	IP Degree of protection	8.2.7	Verification of the IP degree of protection			
8	EMC	8.2.8	Verification of EMC compatibility and adherence to the requirements of 7.10.2. a) and b)			

xEnergy Switchboards

Further information - checklist for low-voltage switchgear and controlgear assemblies

No.	Type of test	Tests		VDE 0660 Part 500 Section	Result	Tester
9.1	P	Mechanical function test (actuators, interlocks etc.)	Tests	8.3.1		
9.2	S	Switchgear mounted to standard				
9.3	S	Correct cable routine				
9.4	S/P	Degree of protection of the enclosure				
9.5	S/P	Clearances, creepage distances and spacings				
9.6	P	Connections between components, between conductors and between conductors and their devices (random testing of tightening torques)				
9.7	P/V	Conformance of the wiring with the circuit documentation				
9.8	V	Conformance of labels, markings, completeness of instruction leaflets etc. with the circuit diagrams and other documentation				
9.9	P	Electrical function testing (if expressly required, agreements between user and manufacturer, F0322)				
10	P	Insulation test or verification of the insulation strength/insulation resistance		8.3.2 8.3.4		
11	S/P	Protective measures and earth continuity	8.3.3			

Key:

S = Visual inspection for compliance with requirements

P = Inspection - manually or with mechanical or electrical measuring equipment

V = Comparison with production specifications

Date

Signature
(Head of the construction unit within the organization)

xEnergy Switchboards

Further informationen - the new EN 61439 standard

Revised and restructured IEC EN 60439 standard in IEC-EN61439:

The former IEC EN 60439-1 has been divided into 2 new parts:

IEC EN 61439-1 (= VDE 0660 - 600 -1): Low-voltage switchgear and controlgear assemblies - General rules (harmonized basic part)
 IEC EN 61439-2 (= VDE 0660 - 600 -2): Power switchgear and controlgear assemblies (separate product section)

Further product parts are being developed (Part 3: Distribution boards; Part 4: Assemblies for construction sites; Part 5: Assemblies for power distribution; Part 6: Busbar trunking systems)

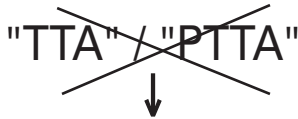
(Publication and validity of the new IEC standard as of 01-2009 / new DIN EN as of 10-2009)

Why the change?

The same technical requirements should apply to all applications / products.
 The intention is to define a systematic way of covering the entire product range (topic of TTA/PTTA).
 Current "grey areas" in the EN60439 standard should be replaced by a clearer and more concise description.

Most important changes:

➤ Elimination of the discrimination between:



Type-tested switchgear assemblies (SA) -->
 Conformity to the standard through a defined verification of satisfying design rules

Definition of an Assembly:

A combination of one or more low-voltage switching devices together with associated control, measuring, signalling, protective, regulating equipment , with all the internal electrical and mechanical interconnections and structural parts.

A low-voltage switchgear and controlgear Assembly is used to distribute and control energy for all types of loads, intended mainly for industrial and commercial applications where access is normally limited to skilled or instructed persons.

➤ Shared product liability

(clear discrimination between original manufacturer and the manufacturer of switchgear and controlgear assemblies):

2 types of verification:

a) DESIGN VERIFICATION (corresponds to the current type-test):

Verification on samples of a switchgear and controlgear assembly or on parts thereof to demonstrate that the design meets the requirements of the standard.

Uniform methods have been defined for the standard-based verification process for all kinds of switchgear and controlgear assemblies, graded by classification.

The switchgear and controlgear assembly (switchgear system) is considered as a "Black Box" with defined requirements for the existing interfaces.

Design verification can be carried out by:

-) Testing
-) Calculation
-) Application of design rules

There is a clear description of tests and verifications to be performed for each switchgear and controlgear assembly.

The standard also includes limits of application and restrictions for verification methods that do not include testing (extract from IEC EN 61439-1):

Table D.1 - List of design verifications to be performed

Nr.	Characteristics to be verified	Clauses or subclauses	Verification options available		
			Verification by testing	Verification by calculation	Verification by design rules
1	Strength of material and parts	10.2			
	Resistance to corrosion	10.2.2	YES	NO	NO
	Properties of insulating materials:	10.2.3			
	Thermal stability	10.2.3.1	YES	NO	NO
	Resistance of insulating materials to normal heat	10.2.3.2	YES	NO	NO
	Resistance to abnormal heat and fire due to internal electric effects	10.2.3.3	YES	NO	NO
	Resistance to ultra-violet (UV) radiation	10.2.4	YES	NO	NO
	Lifting	10.2.5	YES	NO	NO
	Mechanical impact	10.2.6	YES	NO	NO
	Marking	10.2.7	YES	NO	NO
2	Degree of protection of enclosures	10.3	YES	NO	YES
3	Clearances and creepage distances	10.4	YES	YES	YES
4	Protection against electric shock and integrity of protective circuits:	10.5			
	Effective continuity between the exposed conductive parts of the ASSEMBLY and the protective circuit	10.5.2	YES	NO	NO
	Effectiveness of the assembly for external faults	10.5.3	YES	YES	YES
5	Incorporation of switching devices and components	10.6	NO	NO	YES
6	Internal electrical circuits and components	10.7	NO	NO	YES
7	Terminals for external conductors	10.8	NO	NO	YES
8	Dielectric properties:	10.9			
	Power-frequency withstand voltage	10.9.2	YES	NO	NO
	Impulse withstand voltage	10.9.3	YES	NO	YES
9	Temperature-rise limits	10.10	YES	YES	YES
10	Short-circuit withstand strength	10.11	YES	YES	YES
11	Electromagnetic compatibility (EMC)	10.12	YES	NO	YES
12	Mechanical operation	10.13	YES	NO	NO

xEnergy Switchboards

Further information - the new EN 61439 standard

The choice of the verification option is the responsibility of the manufacturer
The type of verification is of minor importance for the customer.

The DESIGN VERIFICATION is to be produced by the original manufacturer, (the company that has developed the switchgear system), i. e. by EATON.

It includes the:

- 1) Design
 - 10.2) Strength of material and parts
 - 10.3) Degree of protection of enclosures
 - 10.4) Clearances and creepage distances
 - 10.5) Protection against electric shock
 - 10.6) Incorporation of switching devices and components
 - 10.7) Internal electrical circuits and connections
 - 10.8) Terminals for external conductors
- 2) Characteristics
 - 10.9) Dielectric properties
 - 10.10) Temperature-rise limits
 - 10.11) Short-circuit withstand strength
 - 10.12) Electromagnetic compatibility (EMC)
 - 10.13) Mechanical operation

b) ROUTINE VERIFICATION (corresponds to what today is referred to as routine test):

It has to be produced by the manufacturer of the switchgear and controlgear assembly (organization that assumes the responsibility for the finished switchgear and controlgear assembly and it represents the verification that the system, after it has been assembled, meets the requirements of the original manufacturer.

It includes:

- 1) Design rules:
 - a) Degree of protection of enclosures;
 - b) Clearances and creepage distances;
 - c) Protection against electric shock and integrity of protective circuits;
 - d) Incorporation of switching devices and components;
 - e) Internal electrical circuits and connections;
 - f) Terminals for external conductors;
 - g) Mechanical operation.
- 2) Characteristics (See 11.9 to 11.10):
 - a) Dielectric properties;
 - b) Wiring, operational behavior and functioning.

➤ Degree of protection through enclosures of switchgear assemblies

Enclosure requirements have been adopted from other standards, e.g.

- Protection against mechanical impact
- Protection against contact with live parts
- Protection against the ingress of solid bodies
- Protection against the ingress of liquids
- IP code for set-up in indoor areas
- Degree of protection for closed design
- Degree of protection for operating front
- Degree of protection for removable components in operating position

In case you use enclosures (switchboard cabinets / enclosures) that have been type-tested according to a relevant product standard (see IEC 62 208 among others), no additional tests are required and the results can be adopted.

Validity of type-tests acc. to EN60439:

Where switchgear and controlgear assemblies tests have been conducted according to IEC60439 prior to the publication of the new product standard and the test results fulfill the requirements of the appropriate parts of the new IEC61439, the verification of these requirements need not to be repeated.

Conclusion:

Type-tested assemblies don't seem to exist anymore. Or do they still exist?

Tests will be carried out in the future too. But they will not be considered as a typical classification feature anymore.
The categories of "type-tested assemblies" and "partially type-tested assemblies" have been discarded completely.
There will only be assemblies conforming to the applicable product standard, in our case: IEC 61 439 - 1 and - 2

1. In the future, the test lab will issue a "Verification Report" confirming that the assembly complies with the applicable product standard
2. The assembly manufacturer (panel builder) will issue, like in the past, a "Certification of Conformity" for each of his (individual / application-related) completed assembly.

Stücknachweis Routine verification

Firmenlogo/
company logo

Das Produkt/
The product

xEnergy

Hersteller/ Panel Builder:

Beschreibung: Serienmäßig typgeprüftes Baukastensystem zur Herstellung von formunterteilten Niederspannungs- Schaltgerätekombinationen, nach den technischen Richtlinien und IL's (Instruction Leaflets) BA's (Bauanweisungen) der Fa. EATON GmbH projektiert, hergestellt und stückgeprüft.

Description: Serial type tested kit system for manufacturing of separated low voltage switch gear and control gear assemblies according to the technical specifications and assembly guides IL's (instruction leaflet) an BA's (Bauanweisungen) of company EATON GmbH configured, manufactured and routine-tested.

Norm Dokument:
Standard Document:

IEC61439 - 1 :2009
IEC61439 - 2 :2009

Auswahl, Konfiguration, Montage und Prüfung erfolgten unter Einhaltung der Vorgaben der EATON GmbH gemäß nachstehender Dokumentation:
xEnergy Katalog, Technische Buch, IL's – Instruction Leaflets, BA's – Bauanweisungen

Selection, configuration, assembly and testing in according with specifications or EATON GmbH as stated in the following documentation: xEnergy catalogue, technical guide, IL's – Instruction Leaflet's, BA's – Bauanweisungen

Nachfolgend aufgeführter Stücknachweis wurden gemäß IEC 61439-1 und IEC 61439-2 ausgeführt.
Following routine verifications are done in accordance to IEC 61439-1 and IEC 61439-2.

Anmerkung/ Remark:

Stücknachweise brauchen an in der Schaltgerätekombination eingebauten Geräten und an für sich allein verwendbaren Baugruppen nicht durchgeführt werden, wenn sie nach 8.5.3 (aus IEC 61439-1) ausgewählt und nach Anweisungen des Geräteherstellers eingebaut wurden.

Routine verification is not required to be carried out on devices and self-contained components incorporated in the Assembly when they have been selected in accordance with 8.5.3 (of IEC 61439-1) and installed in accordance with the instructions of the device manufacturer.

Beschreibung Description	Prüfvorgabe Target test result	Prüfergebnis Test result	Prüfer Test person	Datum date
Hinweis gemäß 11.2 Schutzart von Umhüllungen (nur Stichproben) Verification acc. 11.2 degree of protection of enclosures (only visual inspection)	IP ____	IP ____		
Nachweis gemäß 11.3 Luft- und Kriechstrecken. Physikalische Messung oder Prüfung der Stoßspannungsfestigkeit übereinstimmend mit 10.9.3 Verification acc. 11.3 clearances and creepage distances. Physical measurement or by an impulse voltage test acc. 10.9.3	>=8mm			
Nachweis gem. 11.4 Schutz gegen elektrischen Schlag und Durchgängigkeit des Schutzleiterkreises. Sichtprüfung der Maßnahmen gem. 11.4. Verification acc. 11.4 protection against electric shock and integrity of protective circuits. Visual inspection in acc. to 11.4	o.K.			
Nachweis gem. 11.5 Einbau von Betriebsmitteln. Prüfung der Übereinstimmung den Betriebsmittel der Fertigungsunterlagen. Verification acc. 11.5 Incorporation of built-in components. Built-in components shall be in acc. with assembly manufacturing instructions.	o.K.			
Nachweis gem. 11.6 Innere elektrische Stromkreise. Stichprobenartige Prüfung der Verbindungen und Leiter gem. 11.6 Verification acc. 11.6 internal electrical circuits and connections. Inspection on a random basis for connections and conductors acc. to 11.6	o.K.			

xEnergy Switchboards

Further information - Routine Verification

Seite/ page 2 von/ of 3

Beschreibung Description	Prüfvorgabe Target test results	Prüfergebnis Test results	Prüfer Test person	Datum date
Nachweis gemäß 11.7 Anschlüsse für von außen eingeführte Leiter. Prüfung der von außen eingeführten Leiter mit den Fertigungsunterlagen gem. 11.7 Verification acc. 11.7 terminals for external conductors. Terminals shall be checked in accordance with assembly manufacturing instructions in acc.to 11.7.				
Nachweis gemäß 11.8 mechanischer Funktion. Prüfung der mechanischen Funktionen an der Schaltgerätekombination übereinstimmend mit 10.9.3 Verification acc. 11.8 mechanical operation. Check of mechanical operation at the assembly.	o.K.			
Nachweis gem. 11.9 Isolationseigenschaften. Prüfung gem. 10.9.2 and 11.9 Verification acc. 11.9 dielectric properties. Power-frequency withstand test acc. to 10.9.2 and 11.9	3kV			
Nachweis gem. 11.10 Verdrahtung, Betriebsverhalten und Funktion, Vollständigkeit der Angaben und Kennzeichnung und Funktionsprüfung, ggfs zusätzliches Prüfprotokoll der Funktionsprüfung. Verification acc. 11.10 wiring, operational performance and function. Information and marketing are complete and check of operational functions, if necessary separate test report	o.K.			

Ausstellungsdatum
Date of issue

Name/Funktion/ Unterschrift
name/ function/ signature

xEnergy Switchboards

Further information - rated/short-circuit currents of standard transformers

Rated voltage U_N	400/230 V			525 V			690/400 V		
Rel. short-circuit voltage U_k	4 % ¹⁾		6 % ²⁾	4 % ¹⁾		6 % ²⁾	4 % ¹⁾		6 % ²⁾
Rated power	Rated current	Short-circuit current ³⁾		Rated current	Short-circuit current ³⁾		Rated current	Short-circuit current ³⁾	
kVA	A	I''_k	A	A	I''_k	A	A	I''_k	A
400	578	14450	9630	440	11000	7333	336	8336	5568
500	722	18050	12030	550	13750	9166	420	10440	7120
630	909	22750	15166	693	17320	11550	526	1330	8760
800	1156	28900	19260	880	22000	14666	672	16672	11136
1000	1444	36100	24060	1100	27500	18333	840	20840	13920
1250	1805	45125	30080	1375	34375	22916	1050	26060	17480
1600	2312	57800	38530	1760	44000	29333	1330	33300	22300
2000	2888	72200	48120	2200	55000	36666	1680	41680	27840
2500	3612	90300	60200	752	68800	45866	2094	52350	34900

¹⁾ $U_k = 4\%$ standardized to DIN 42500 for $S_{NT} = 50...630$ kVA

²⁾ $U_k = 6\%$ standardized to DIN 42500 for $S_{NT} = 100...1600$ kVA

³⁾ I''_k = Initial symmetrical short-circuit current of transformer for connection to a supply network with unlimited short-circuit capacity

Approximation formula

Transformer rated current

$$I_N [A] = k \times S_{NT} [kVA]$$

400 V: $k = 1.45$

500 V: $k = 1.1$

690 V: $k = 0.84$

Transformer short-circuit current

$$I''_k = \frac{I_N}{U_k} \times 100$$

Dimensioning of low-voltage switchgear and controlgear assemblies

When rating switchgear and controlgear assemblies with regard to short-circuit withstand strength, the rated short-circuit values basically need to be compared with the short-circuit currents of the incoming power supply. The switchgear and controlgear assembly needs to be rated merely for the short-circuit load which may occur. Busbars need to resist the thermal and dynamic load of the short-circuit currents which may flow in them (e.g. through a circuit breaker on the incoming side, for a limited time). To facilitate the rating, only the rated values of the switchgear and controlgear assembly according to the following scheme are used.

The let-through characteristics of the short-circuit protective device and the attenuation effect of the connection between the transformer and the switchgear and controlgear assembly are thus disregarded.

Rated short-time withstand current

$$I_{cw} \geq \text{transformer short-circuit current } I''_k$$

and

Rated peak withstand current

$$I_{pk} \geq \text{peak short-circuit current } i_p$$

Where a short-circuit protective device leads to a restriction in the duration of the short-circuit, a rated short-time withstand current can be applied for a corresponding period of time. Example: incoming supply circuit breaker disconnects short-circuit after 40 ms; an established rated short-time withstand current value for 100 ms is compared with transformer short-circuit current for rating purposes. The rated operational voltage U_e must be the same or greater than the transformer voltage.

Transformer rated current I_N :

$$I_N = k \times S_{NT}$$

Transformer short-circuit current I''_k :

$$I''_k = I_N \times 100 / u_{k\%}$$

Peak short-circuit current i_p :

$$i_p = n \times I''_k$$

$n = 2.2$ at $I > 50$ kA

$n = 2.1$ at $20 \text{ kA} < I \leq 50$ kA

The above described procedure for rating the switchgear and controlgear assembly refers primarily to the rating of main busbar systems. Rating of the dropper bar systems and/or of all connections from the main busbar to the incoming supply side of functional units only need to be rated for the reduced short-circuit load that may occur on the outgoing side of the short-circuit protective device for the functional units. It is a prerequisite that, under normal operating conditions, a short-circuit is not expected to occur on these dropper bars or connections.

Example:

The transformer short-circuit current $I''_k = 90$ kA, the selected main busbars have a rated short-time withstand current I_{cw} of 100 kA, the dropper bars, however, have a rated short-time withstand current I_{cw} of 65 kA (because the circuit breaker for the outgoing from the dropper bar has reduced the short-circuit load thanks to its current-limiting effect).

xEnergy Switchboards

Further information - internal separation

Forms of internal separation acc. to IEC/EN 61439

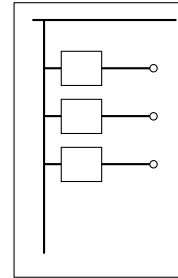
Low-voltage switchgear and controlgear assemblies can be divided into separate compartments or barriered sub-sections. The aim of forming separate compartments or barriered sub-sections which contain the functional units is:

- Protection against direct contact with live parts belonging to an adjacent functional unit (degree of protection shall be IP2X or IP XXB).
- Limitation of the probability of initiating arcing faults
- Protection against the passage of solid foreign bodies from one unit of an assembly to an adjacent unit (degree of protection shall be at least IP2X)

Depending on how the compartments or barriered sub-sections are built, there are different typical forms of internal separation defined:

Form 1

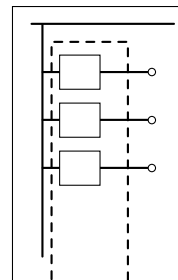
- no internal separation provided



Form 2a

- internal separation between busbars and functional units

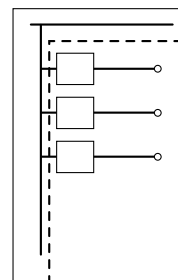
- Terminals for external conductors do not need to be separated from the busbars



Form 2b

- internal separation between busbars and functional units

- Terminals for external conductors need to be separated from the busbars



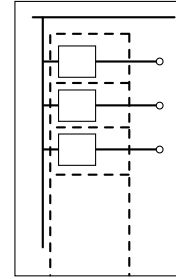
xEnergy Switchboards

Further information - internal separation

Form 3a

- internal separation between busbars and functional units as well as separation of the functional units from each other

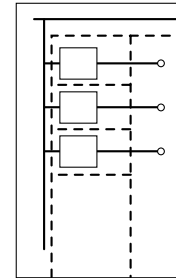
- Terminals for external conductors do not need to be separated from the busbars



Form 3b

- separation of the terminals for external conductors from functional units, but not from each other

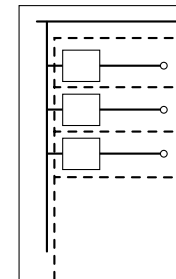
- Terminals for external conductors need to be separated from the busbars



Form 4a

- internal separation between busbars and functional units as well as between the individual functional units from each other, including the terminals for external conductors which are an integral part of the functional unit

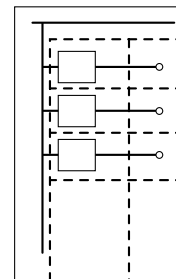
- Terminals for external conductors within the same compartment as the assigned functional unit



Form 4b

- internal separation between busbars and functional units as well as separation of the functional units from each other, including the terminals for external conductors which are an integral part of the functional units

- Terminals for external conductors which are not in the same compartment as the assigned functional units, but which are enclosed in their own barriered area or compartment



The form and degree of protection of the internal separation (if higher than IP2X or IPXX B) need to be agreed between the user and the manufacturer. Internal separations are to protect the personnel and the system during work to be carried out on switchgear and controlgear assemblies that cannot be de-energized for operational reasons.

Depending on the operational requirements, distribution sections can optimally be finished in different forms of internal separation. Distribution sections that should allow easy replacement of functional units (e.g. drawer unit distributors) will come with a higher form of internal separation as a standard, e.g. with an internal separation of

form 3b. An internal separation according to form 2b, e.g. an internal separation between busbars and functional units, is recommended in any case.

xEnergy Switchboards

Short-circuit rating for circuit breakers/devices

Circuit breaker	Installation type	I _e up to A	Category breaking capacity/ optional equipment	Short-circuit rating at 400 V AC		
				I _{cc} kA	I _{cw} kA (1 s)	I _{cu} kA (only for device)
IZMX16			B	65	42	42
			N	65	42	50
			H	65	42	65
IZMX40	Fixed, with-drawable	800	B	66	66	66
			N	85	85	85
			H	-	-	-
		1000	B	66	66	66
			N	85	85	85
			H	-	-	-
		1200	B	66	66	66
			N	85	85	85
			H	-	-	-
		1600	B	66	66	66
			N	85	85	85
			H	-	-	-
		2000	B	66	66	66
			N	85	85	85
			H	-	-	-
		2500	B	66	66	66
			N	85	85	85
			H	-	-	-
		3200	B	66	66	66
			N	85	85	85
			H	-	-	-
		4000	B	66	85	85
			N	85	85	85
			H	-	-	-
IZM20			B	65	50	50
			N	65	65	65
			H	-	-	-
IZM32			B	100	65	65
			N	100	85	85
			H	100	85	100
IZM40			N	100	85	85
			H	100	100	100
NZM 4	Fixed, Drawer u.	1600	N	50	-	50
			H	100	-	100
PKZM0	Fixed	10	-	100	100	
		32	-	50	50	
PKZM4	Fixed	25	CL-PKZ0	100	-	100
		63	-	100	-	100
			-	50	50	

xEnergy Switchboards

Short-circuit rating for circuit breakers/devices

Circuit breaker	Installation type	I _e up to A	Category breaking capacity/ optional equipment	Short-circuit rating at 400 V AC		
				I _{cc} kA	I _{cw} kA (1 s)	I _{cu} kA (only for device)
NZM1	Fixed Plug-in module	160	B	25	-	25
			N	50	-	50
			H	100	-	100
NZM2	Fixed Plug-in module	300	B	30	-	30
			N	85	-	85
			H	100	-	100
NZM3	Fixed, Drawer unit	630	N	85	-	85
			H	100	-	100

Devices	Installation type	Frame size/ I _e up to A	Max. rated current of low-voltage h.b.c. fuse bases, utilization class gL, gG (VDE 0636IEC/EN 60269-1) in A								
			Rated conditional short-circuit current I _{cf} at 500 V AC				Rated conditional short-circuit current I _{cf} at 690 V AC				
			50 kA	65 kA	80 kA	100 kA	50 kA	65 kA	80 kA	100 kA	
GS(TA)	Fixed	00/100	100	-	-	-	-	-	-	-	-
		1/250	250	-	-	-	-	-	-	-	-
		2/400	400	-	-	-	-	-	-	-	-
PIFT	Fixed	00/100	160	125	100	80	100	100	100	100	80
		1/250	250	224	200	160	200	160	160	125	100
		2/400	400	400	400	355	315	315	315	315	250
		3/630	630	500	500	425	500	500	500	500	400
SL	Fixed	00/100	160	-	-	-	100	-	-	-	-
		1/250	-	-	250	-	-	-	-	200	-
		2/400	-	-	400	-	-	-	-	315	-
		3/630	-	-	630	-	-	-	-	500	-

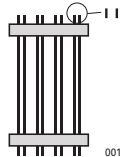
xEnergy Switchboards

Short-circuit rating for busbars

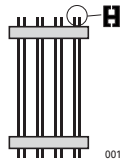
Busbar I_e A	Busbar cross-section L1, L2, L3 and full N mm ²	Max. center-to-center distance between busbar carrier in mm for I_{cw} (1 s)					
		35 kA mm	45 kA mm	50 kA mm	65 kA mm	80 kA mm	100 kA mm

Dropper bars

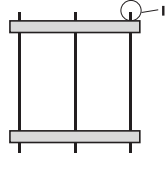
Flat copper for fixed modules with circuit breakers, with XDSF... busbar supports at the rear or on the side
Center-to-center distance between phases 60 mm

	800	2 x 20 x 10	325	-	-	-	-	-
	1250	2 x 40 x 10	325	325	-	-	-	-
	1600	2 x 60 x 10	600	325	325	-	-	-

Duplex profiles for fixed modules with circuit breakers, with XDSF... busbar supports at the rear or on the side
Center-to-center distance between phases 60 mm

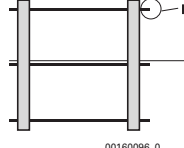
	1250	40 x 30	600	600	600	-	-	-
	1600	60 x 30	600	600	600	-	-	-

Flat copper for horizontally installed PIFT fuse strips with XDSSV... busbar supports
Center-to-center distance between phases 185 mm

	800	1 x 40 x 10	-	600	600	450	450	-
	1000	1 x 60 x 10	-	600	600	450	450	-
	1250	1 x 80 x 10	-	750	750	450	450	-
	1600	1 x 100 x 10	-	750	750	450	450	-

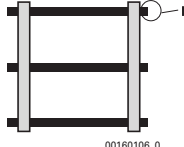
If necessary, further busbar supports from Eaton should be added depending on the required short-circuit rating.

Flat copper for vertically installed PIFT fuse strips with XDSSH... busbar supports
Center-to-center distance between phases 185 mm

	800	1 x 40 x 10	-	600	600	450	450	-
	1000	1 x 60 x 10	-	600	600	450	450	-
	1250	1 x 80 x 10	-	750	750	450	450	-
	1600	1 x 100 x 10	-	750	750	450	450	-

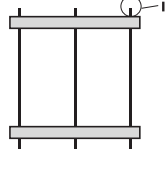
If necessary, further busbar supports from Eaton should be added depending on the required short-circuit rating.

Flat copper for vertically installed SL fuse strips with XSML... fitting kit
Center-to-center distance between phases 185 mm

	800	1 x 40 x 10	-	400	400	-	-	-
	1000	1 x 60 x 10	-	400	400	-	-	-
	1250	1 x 80 x 10	-	400	400	-	-	-
	1600	1 x 100 x 10	-	400	400	-	-	-

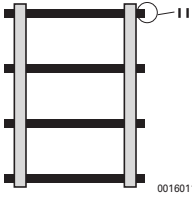
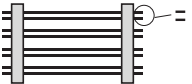
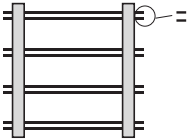
Plug-in module technology

Center-to-center distance between phases 185 mm

	800	1 x 40 x 10	600	600	600	450	450	-
	1000	1 x 60 x 10	600	600	600	450	450	-
	1250	1 x 80 x 10	600	600	600	450	450	-
	1600	1 x 100 x 10	600	600	600	450	450	-

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Short-circuit rating for busbars

Busbar I_e A	Busbar cross-section L1, L2, L3 and full N mm ²	Max. center-to-center distance between busbar carrier in mm for I_{cw} (1 s)						
		35 kA mm	45 kA mm	50 kA mm	65 kA mm	80 kA mm	100 kA mm	
Main busbars								
Flat copper at the rear with XBSB... busbar supports Center-to-center distance between phases 180 mm								
	1600	2 x 40 x 10	-	*	350	350	-	-
	2000	2 x 60 x 10	-	*	350	350	-	-
	2500	2 x 80 x 10	-	*	350	350	350	-
	3200	3 x 80 x 10	-	*	350	350	350	-
	4000	3 x 80 x 10	-	*	350	350	350	350
	5000	2x (3 x 80 x 10)	-	*	350	350	350	350
Flat copper at the top with XBST...-1 busbar supports Center-to-center distance between phases 60 mm								
	800	2 x 20 x 10	*	*	*	-	-	-
	1250	2 x 40 x 10	300	300*	*	-	-	-
	1600	2 x 60 x 10	300	300	*	-	-	-
Flat copper at the top with XBST... busbar supports Center-to-center distance between phases 125 mm								
	1250	2 x 40 x 10	450	350	-	-	-	-
	1600	2 x 60 x 10	450	350	350	-	-	-
	2000	2 x 80 x 10	-	450	350	350	-	-
	2500	2 x 100 x 10	-	450	350	350	-	-
	3200	2 x 120 x 10	-	450	350	350	-	-

Notes

* on request

Attention!

For incoming, outgoing and coupling sections using IZM or NZM4 circuit breakers up to the max. short-circuit rating of the busbars in

- rear position, of I_{cw} (1 s) = 80 kA as of a busbar cross-section 2 x 80 x 10 mm, XBSB...
- top position, of I_{cw} (1 s) = 65 kA as of a busbar cross-section 2 x 80 x 10 mm, XBST...

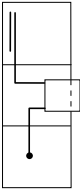
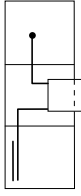
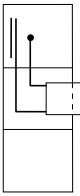
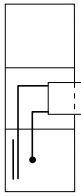
the incorporation of 2 busbar supports per section is sufficient.

Exception:

For NZM4 circuit breakers in a 600 mm wide section, a max. short-circuit rating of I_{cw} (1 s) = **45 kA** will be achieved with the incorporation of 2 XBSB... or XBST... busbar supports per section.

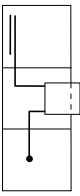
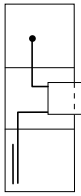
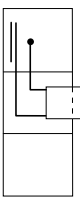
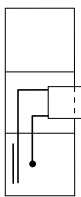
xEnergy Switchboards

Current load for circuit breakers IZMX40 up to 4000 A - with 85 kA breaker version

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
					25°C A	35°C A	45°C A
					A		
Busbar area at the rear, up to 3200 A →↔ section depth 600 mm 4000 A →↔ section depth 800 mm							
 00122477_0	IZMX40 / 85 kA	Fixed, with-drawable	1600	IP31 with protect. top cover XAD...	1600	1600	1600
				IP31 with closed top panel XSPTC...	1600	1600	1600
 00122467_0			2000	IP55	1600	1600	1500
				IP31 with protect. top cover XAD...	2000	2000	2000
 00122457_1			2500	IP31 with closed top panel XSPTC...	2000	2000	2000
				IP55	2000	1980	1750
 00122487_1			3200	IP31 with protect. top cover XAD...	2500	2400	2150
				IP31 with closed top panel XSPTC...	2500	2350	2000
			4000	IP55	2100	1980	1750
				IP31 with protect. top cover XAD...	3060	2888	2520
				IP31 with closed top panel XSPTC...	2880	2710	2460
				IP55	2480	2340	1950
				IP31 with protect. top cover XAD...	3870	3650	2973
				IP31 with closed top panel XSPTC...	3500	3300	2950
				IP55	2890	2700	2440

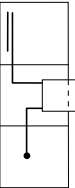
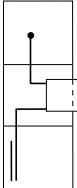
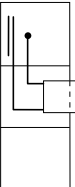
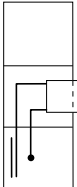
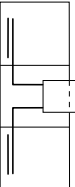
Current load for circuit breakers IZMX40 up to 2500 A - with 66 kA breaker version

- please use separate documentation for 66 kA version

Configuration	Circuit breaker	Installation type	I_e up to	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
					25°C A	35°C A	45°C A
					A		
Busbar area at the rear, up to 2500 A →↔ section depth 600 mm							
 00122477_0	IZMX40 / 66 kA	Fixed, with-drawable	1600	IP31 with protect. top cover XAD...	1600	1600	1600
				IP31 with closed top panel XSPTC...	1600	1600	1600
 00122467_0			2000	IP55	1600	1600	1500
				IP31 with protect. top cover XAD...	2000	2000	2000
 00122457_1			2500	IP31 with closed top panel XSPTC...	2000	2000	1950
				IP55	2000	1900	1680
 00122487_1				IP31 with protect. top cover XAD...	2490	2350	2100
				IP31 with closed top panel XSPTC...	2440	2300	1950
				IP55	2010	1900	1680

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Current load for circuit breakers IZM13/NZM up to 4000 A

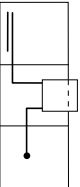
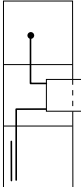
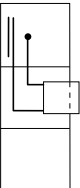
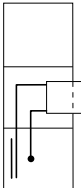











Configuration	Circuit breaker	Installation type	I_e up to A	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
					25°C A	35°C A	45°C A
Busbar area at the rear, up to 3200 A →↔ section depth 600 mm 4000 A →↔ section depth 800 mm							
 00122477_0	NZM 4 ¹⁾	Fixed	1600	IP31 with protect. top cover XAD...	1600	1550	1440
		Drawer unit	1600	IP31 with closed top panel XSPTC...	1600	1550	1440
 00122467_0	NZM 4 ¹⁾	Fixed	1600	IP55	1600	1550	1440
		Drawer unit	1600	IP31 with protect. top cover XAD...	1355	1305	1220
 00122457_1	NZM 4 ¹⁾	Fixed	1600	IP31 with closed top panel XSPTC...	1355	1305	1220
		Drawer unit	1600	IP55	1220	1175	1120
 00122487_1	NZM 4 ¹⁾	Fixed	1600	IP31 with protect. top cover XAD...	1600	1550	1440
		Drawer unit	1600	IP31 with closed top panel XSPTC...	1600	1550	1440
 00122497_0	NZM 4 ¹⁾	Fixed	1600	IP55	1600	1550	1440
		Drawer unit	1600	IP31 with protect. top cover XAD...	1355	1305	1220
	NZM 4 ¹⁾	Fixed	1600	IP31 with closed top panel XSPTC...	1355	1305	1220
		Drawer unit	1600	IP55	1220	1175	1120

Note

¹⁾ For sections with an internal separation of form 4 an additional current derating of 10% must be taken into account.

xEnergy Switchboards

Current load for circuit breakers IZMX16/IZM26 up to 5000 A

Configuration	Circuit breaker	Installation type	I_e up to A	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
					25°C A	35°C A	45°C A
Busbar area at the rear							
up to 3200 A →↔ section depth 600 mm							
4000 A →↔ section depth 800 mm							
	IZMX16-..	Fixed, Drawer unit	1600	IP31 with protect. top cover XAD...	1600	1600	1490
				IP31 with closed top panel XSPTC...	1590	1500	1400
	IZM20-..	Fixed, Drawer unit	2000	IP55	1590	1500	1400
				IP31 with protect. top cover XAD...	1980	1870	1740
	IZM32-..	Fixed, Drawer unit	2500	IP31 with closed top panel XSPTC...	1890	1780	1660
				IP55	1750	1650	1540
	IZM40-..	Fixed, Drawer unit	3200	IP31 with protect. top cover XAD...	2500	2380	2210
				IP31 with closed top panel XSPTC...	2400	2280	2110
	IZMX16-..	Fixed, Drawer unit	1600	IP55	2090	1970	1830
				IP31 with protect. top cover XAD...	2810	2650	2470
	IZM20-..	Fixed, Drawer unit	2000	IP31 with closed top panel XSPTC...	2680	2530	2350
				IP55	2350	2220	2070
	IZM32-..	Fixed, Drawer unit	2500	IP31 with protect. top cover XAD...	3920	3700	3440
				IP31 with closed top panel XSPTC...	3710	3500	3260
	IZM40-..	Fixed, Drawer unit	4000	IP55	3130	2950	2740
				IP31 with protect. top cover XAD...	1600	1600	1490
	IZM20-..	Fixed, Drawer unit	2000	IP31 with closed top panel XSPTC...	1590	1500	1400
				IP55	1590	1500	1400
	IZM32-..	Fixed, Drawer unit	2500	IP31 with protect. top cover XAD...	1980	1870	1740
				IP31 with closed top panel XSPTC...	1890	1780	1660
	IZM40-..	Fixed, Drawer unit	3200	IP55	1750	1650	1540
				IP31 with protect. top cover XAD...	2500	2380	2210
	IZM63-..	Fixed, Drawer unit	5000	IP31 with closed top panel XSPTC...	2400	2280	2110
				IP55	2090	1970	1830
	IZM40-..	Fixed, Drawer unit	4000	IP31 with protect. top cover XAD...	2810	2650	2470
				IP31 with closed top panel XSPTC...	2680	2530	2350
	IZM63-..	Fixed, Drawer unit	5000	IP55	2350	2220	2070
				IP31 with protect. top cover XAD...	3920	3700	3440
	IZM63-..	Fixed, Drawer unit	5000	IP31 with closed top panel XSPTC...	3710	3500	3260
				IP55	3130	2950	2740
	IZM63-..	Fixed, Drawer unit	5000	IP31 with protect. top cover XAD...	5000	4800	4460
				IP31 with closed top panel XSPTC...	4870	4600	4270
	IZM63-..	Fixed, Drawer unit	5000	IP55	4240	4000	3720
				IP31 with closed top panel XSPTC...	4870	4600	4270

xEnergy Switchboards

Current load for circuit breakers up to 630 A

Configuration	Circuit breaker/ device	Installation type	I _e up to A	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
					25°C A	35°C A	45°C A
Horizontal device installation, Form 2							
	PKZM0	Fixed	32	IP31 with protect. top cover XAD...	25	25	18
				IP31 with closed top panel XSPTC...	23	23	17
				IP55	21	20	14
	PKZM4	Fixed	63	IP31 with protect. top cover XAD...	63	63	53
				IP31 with closed top panel XSPTC...	63	61	51
				IP55	62	58	49
	NZM1	Fixed	160	IP31 with protect. top cover XAD...	160	160	155
				IP31 with closed top panel XSPTC...	160	159	147
				IP55	152	130	108
		Plug-in module	160	IP31 with protect. top cover XAD...	125	125	111
				IP31 with closed top panel XSPTC...	116	116	103
				IP55	110	100	88
	NZM2	Fixed	300	IP31 with protect. top cover XAD...	300	300	300
				IP31 with closed top panel XSPTC...	300	300	289
				IP55	300	296	275
		Plug-in module	300	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*
	NZM3	Fixed	630	IP31 with protect. top cover XAD...	630	630	570
				IP31 with closed top panel XSPTC...	630	574	519
				IP55	547	505	462
		Drawer unit	630	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*
Horizontal device installation, Form 4							
	PKZM0	Fixed	32	IP31 with protect. top cover XAD...	25	24	17
				IP31 with closed top panel XSPTC...	23	22	16
				IP55	21	20	14
	PKZM4	Fixed	63	IP31 with protect. top cover XAD...	63	63	53
				IP31 with closed top panel XSPTC...	61	61	51
				IP55	59	55	46
	NZM1	Fixed	160	IP31 with protect. top cover XAD...	160	160	148
				IP31 with closed top panel XSPTC...	160	156	132
				IP55	142	126	109
		Plug-in module	160	IP31 with protect. top cover XAD...	123	115	101
				IP31 with closed top panel XSPTC...	114	107	94
				IP55	107	100	88
	NZM2	Fixed	300	IP31 with protect. top cover XAD...	300	300	288
				IP31 with closed top panel XSPTC...	300	300	272
				IP55	300	257	214
		Plug-in module	300	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*
	NZM3	Fixed	630	IP31 with protect. top cover XAD...	630	627	565
				IP31 with closed top panel XSPTC...	630	580	503
				IP55	537	479	422
		Drawer unit	630	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*

Note

* Values on request

xEnergy Switchboards

Current load for circuit breakers up to 630 A

Configuration	Circuit breaker/ device	Installation type	I _e up to A	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
					25°C A	35°C A	45°C A
Vertical device installation, Form 2							
	PKZM0	Fixed	32	IP31 with protect. top cover XAD...	25	25	18
				IP31 with closed top panel XSPTC...	23	23	17
				IP55	21	20	14
	PKZM4	Fixed	63	IP31 with protect. top cover XAD...	63	63	53
				IP31 with closed top panel XSPTC...	63	61	51
				IP55	62	58	49
	NZM1	Fixed	160	IP31 with protect. top cover XAD...	160	155	136
				IP31 with closed top panel XSPTC...	159	147	134
				IP55	130	108	87
		Plug-in module	160	IP31 with protect. top cover XAD...	125	125	111
				IP31 with closed top panel XSPTC...	116	116	103
				IP55	110	100	88
	NZM2	Fixed	300	IP31 with protect. top cover XAD...	266	251	237
				IP31 with closed top panel XSPTC...	256	241	226
				IP55	247	229	211
		Plug-in module	300	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*
	NZM3	Fixed	630	IP31 with protect. top cover XAD...	600	570	509
				IP31 with closed top panel XSPTC...	574	519	463
				IP55	505	462	420
		Drawer unit	630	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*
	GS(TA)00	Fixed	160	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*
	GS(TA) 1	Fixed	250	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*
	GS(TA) 2	Fixed	400	IP31 with protect. top cover XAD...	*	*	*
				IP31 with closed top panel XSPTC...	*	*	*
				IP55	*	*	*

Note

* Values on request

xEnergy Switchboards

Current load for circuit breakers up to 630 A, device installation using plug-in modules

Configuration	Circuit breaker/ device	Installation type	I _e up to A	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections		
					25°C A	35°C A	45°C A
Horizontal device installation, Form 2							
	NZM1	Plug-in module	160	IP31 with protect. top cover XAD... ²⁾	174	131	88
				IP31 with closed top panel XSPTC... ¹⁾	188	145	101
				IP55 ¹⁾	159	123	86
	NZM2	Plug-in module	300	IP31 with protect. top cover XAD... ²⁾	299	271	224
				IP31 with closed top panel XSPTC... ¹⁾	304	277	249
				IP55	280	255	193
	NZM3	Plug-in module	630	IP31 with protect. top cover XAD... ²⁾	607	558	510
				IP31 with closed top panel XSPTC... ¹⁾	563	522	400
				IP55 ¹⁾	507	432	320
Horizontal device installation, Form 4							
	NZM1	Plug-in module	160	IP31 with protect. top cover XAD... ²⁾	154	116	78
				IP31 with closed top panel XSPTC... ¹⁾	166	128	89
				IP55 ¹⁾	140	109	76
	NZM2	Plug-in module	300	IP31 with protect. top cover XAD... ²⁾	264	239	198
				IP31 with closed top panel XSPTC... ¹⁾	269	245	220
				IP55 ¹⁾	247	225	170
	NZM3	Plug-in module	630	IP31 with protect. top cover XAD... ²⁾	590	543	496
				IP31 with closed top panel XSPTC... ¹⁾	581	535	431
				IP55 ¹⁾	538	494	330

Notes

¹⁾ Derating values taking into account the max. permissible additional power loss with closed setup (IP55).

²⁾ Derating values taking into account the max. permissible additional power loss with IP31 including a ventilated top.

xEnergy Switchboards

Current load for PIFT switch fuse units up to 630 A

Device	I _e up to A	Number per section	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections				
				25°C A	35°C A	45°C A		
Horizontal device installation								
PIFT00	160	1	IP31 with protect. top cover XAD...	145	135	125		
			IP31 with closed top panel XSPTC...	130	121	112		
		3	IP31 with protect. top cover XAD...	120	110	105		
			IP31 with closed top panel XSPTC...	108	99	95		
		5	IP31 with protect. top cover XAD...	115	110	100		
			IP31 with closed top panel XSPTC...	104	99	90		
		7	IP31 with protect. top cover XAD...	115	110	100		
			IP31 with closed top panel XSPTC...	104	99	90		
		10	IP31 with protect. top cover XAD...	110	105	100		
			IP31 with closed top panel XSPTC...	99	94	90		
		30	IP31 with protect. top cover XAD...	65	65	60		
			IP31 with closed top panel XSPTC...	58	58	54		
		PIFT1	250	1	IP31 with protect. top cover XAD...	230	220	205
					IP31 with closed top panel XSPTC...	207	198	184
3	IP31 with protect. top cover XAD...			190	180	170		
	IP31 with closed top panel XSPTC...			171	162	153		
5	IP31 with protect. top cover XAD...			190	180	165		
	IP31 with closed top panel XSPTC...			171	162	148		
7	IP31 with protect. top cover XAD...			175	175	165		
	IP31 with closed top panel XSPTC...			157	157	148		
10	IP31 with protect. top cover XAD...			125	125	125		
	IP31 with closed top panel XSPTC...			112	112	112		
20	IP31 with protect. top cover XAD...			65	65	65		
	IP31 with closed top panel XSPTC...			58	58	58		
PIFT2	400			1	IP31 with protect. top cover XAD...	400	400	400
					IP31 with closed top panel XSPTC...	360	360	360
		3	IP31 with protect. top cover XAD...	360	345	330		
			IP31 with closed top panel XSPTC...	324	310	297		
		5	IP31 with protect. top cover XAD...	345	330	320		
			IP31 with closed top panel XSPTC...	310	297	288		
		7	IP31 with protect. top cover XAD...	280	265	245		
			IP31 with closed top panel XSPTC...	252	238	220		
		10	IP31 with protect. top cover XAD...	213	242	185		
			IP31 with closed top panel XSPTC...	191	217	166		
		PIFT3	630	1	IP31 with protect. top cover XAD...	550	530	510
					IP31 with closed top panel XSPTC...	495	477	459
				3	IP31 with protect. top cover XAD...	435	420	395
					IP31 with closed top panel XSPTC...	391	378	355
5	IP31 with protect. top cover XAD...			370	350	310		
	IP31 with closed top panel XSPTC...			333	315	279		
7	IP31 with protect. top cover XAD...			295	275	250		
	IP31 with closed top panel XSPTC...			265	247	225		
10	IP31 with protect. top cover XAD...			190	178	175		
	IP31 with closed top panel XSPTC...			171	160	157		

xEnergy Switchboards

Current load for PIFT switch fuse units up to 630 A

Device	I _e up to A	Number per section	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections				
				25°C A	35°C A	45°C A		
Vertical device installation								
PIFT00	160	1	IP31 with protect. top cover XAD...	94	87	81		
			IP31 with closed top panel XSPTC...	84	78	73		
		3	IP31 with protect. top cover XAD...	78	71	68		
			IP31 with closed top panel XSPTC...	70	64	61		
		5	IP31 with protect. top cover XAD...	74	71	65		
			IP31 with closed top panel XSPTC...	67	64	58		
		7	IP31 with protect. top cover XAD...	74	71	65		
			IP31 with closed top panel XSPTC...	67	64	58		
		10	IP31 with protect. top cover XAD...	71	68	62		
			IP31 with closed top panel XSPTC...	64	61	55		
		14	IP31 with protect. top cover XAD...	61	58	55		
			IP31 with closed top panel XSPTC...	55	52	48		
		PIFT1	250	1	IP31 with protect. top cover XAD...	149	143	133
					IP31 with closed top panel XSPTC...	134	128	119
3	IP31 with protect. top cover XAD...			123	117	110		
	IP31 with closed top panel XSPTC...			111	105	99		
5	IP31 with protect. top cover XAD...			123	117	107		
	IP31 with closed top panel XSPTC...			111	105	96		
7	IP31 with protect. top cover XAD...			113	113	107		
	IP31 with closed top panel XSPTC...			102	102	96		
9	IP31 with protect. top cover XAD...			81	81	81		
	IP31 with closed top panel XSPTC...			72	72	72		
PIFT2	400	1	IP31 with protect. top cover XAD...	260	260	260		
			IP31 with closed top panel XSPTC...	234	234	234		
		3	IP31 with protect. top cover XAD...	210	201	193		
			IP31 with closed top panel XSPTC...	210	201	193		
		4	IP31 with protect. top cover XAD...	224	214	208		
			IP31 with closed top panel XSPTC...	201	193	187		
PIFT3	630	1	IP31 with protect. top cover XAD...	357	344	331		
			IP31 with closed top panel XSPTC...	324	310	298		
		3	IP31 with protect. top cover XAD...	282	273	256		
			IP31 with closed top panel XSPTC...	254	245	230		
		4	IP31 with protect. top cover XAD...	240	227	201		
			IP31 with closed top panel XSPTC...	216	204	181		

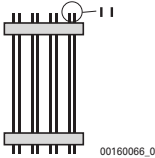
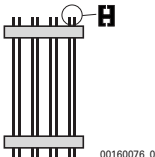
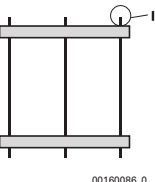
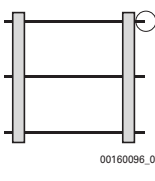
xEnergy Switchboards

Current load for SL fuse switch disconnectors up to 630 A

Device	I _e up to A	Number per section	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections				
				25°C A	35°C A	45°C A		
Vertical device installation								
SL00	160	1	IP31 with protect. top cover XAD...	155	145	135		
			IP31 with closed top panel XSPTC...	155	145	135		
			IP55	150	145	130		
		3	IP31 with protect. top cover XAD...	140	125	110		
			IP31 with closed top panel XSPTC...	140	125	110		
			IP55	135	125	105		
		5	IP31 with protect. top cover XAD...	130	115	100		
			IP31 with closed top panel XSPTC...	125	110	95		
			IP55	120	110	90		
		9	IP31 with protect. top cover XAD...	115	105	90		
			IP31 with closed top panel XSPTC...	110	100	85		
			IP55	105	100	80		
		14	IP31 with protect. top cover XAD...	110	100	85		
			IP31 with closed top panel XSPTC...	105	95	80		
			IP55	95	90	70		
SL1	250	1	IP31 with protect. top cover XAD...	250	250	250		
			IP31 with closed top panel XSPTC...	250	250	250		
			IP55	250	250	250		
		3	IP31 with protect. top cover XAD...	250	250	250		
			IP31 with closed top panel XSPTC...	250	250	250		
			IP55	250	250	245		
		5	IP31 with protect. top cover XAD...	250	250	245		
			IP31 with closed top panel XSPTC...	250	240	235		
			IP55	240	230	220		
		7	IP31 with protect. top cover XAD...	250	250	240		
			IP31 with closed top panel XSPTC...	245	240	230		
			IP55	235	230	210		
		SL2	400	1	IP31 with protect. top cover XAD...	400	400	380
					IP31 with closed top panel XSPTC...	400	395	360
					IP55	400	390	340
3	IP31 with protect. top cover XAD...			390	365	320		
	IP31 with closed top panel XSPTC...			365	350	305		
	IP55			360	330	290		
5	IP31 with protect. top cover XAD...			360	330	310		
	IP31 with closed top panel XSPTC...			340	310	280		
	IP55			320	290	250		
7	IP31 with protect. top cover XAD...			345	320	295		
	IP31 with closed top panel XSPTC...			325	300	265		
	IP55			310	280	240		
SL3	630			1	IP31 with protect. top cover XAD...	610	580	530
					IP31 with closed top panel XSPTC...	605	575	520
					IP55	600	570	510
		3	IP31 with protect. top cover XAD...	540	510	460		
			IP31 with closed top panel XSPTC...	515	490	440		
			IP55	490	470	420		
		5	IP31 with protect. top cover XAD...	480	450	405		
			IP31 with closed top panel XSPTC...	445	420	375		
			IP55	410	390	350		
		7	IP31 with protect. top cover XAD...	420	400	360		
			IP31 with closed top panel XSPTC...	385	365	330		
			IP55	350	330	300		

xEnergy Switchboards

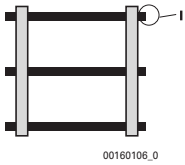
Max. current load and power loss [Pv] for busbars dropper bars

I _e up to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss Pv			
			25°C A	35°C A	45°C A	25°C W/m	35°C W/m	45°C W/m	
A	mm ²								
Dropper bars									
Flat copper for fixed modules with circuit breakers, with XDSF... busbar supports at the rear or on the side Center-to-center distance between phases 60 mm									
	800	2 x 20 x 10	IP31 with protect. top cover XAD...	1400	1300	1200	120	103	88
			IP31 with closed top panel XSPTC...	1220	1150	1080	91	81	71
			IP55	1080	940	840	71	54	43
	1250	2 x 40 x 10	IP31 with protect. top cover XAD...	2060	1920	1770	139	121	103
			IP31 with closed top panel XSPTC...	1880	1730	1580	116	98	82
			IP55	1700	1550	1400	95	79	64
	1600	2 x 60 x 10	IP31 with protect. top cover XAD...	2250	2120	1970	117	104	89
			IP31 with closed top panel XSPTC...	2050	1900	1760	97	83	71
			IP55	1900	1760	1620	83	71	60
Duplex profiles for fixed modules with circuit breakers, with XDSF... busbar supports at the rear or on the side Center-to-center distance between phases 60 mm									
	1250	40 x 30	IP31 with protect. top cover XAD...	1310	1250	1130	90	82	67
			IP31 with closed top panel XSPTC...	1050	1000	910	58	53	44
			IP55	840	800	720	37	34	27
	1600	60 x 30	IP31 with protect. top cover XAD...	1680	1600	1450	108	98	81
			IP31 with closed top panel XSPTC...	1470	1400	1270	83	75	62
			IP55	1150	1100	1000	51	46	38
Flat copper for horizontally installed PIFT fuse strips with XDSSV...busbar supports Center-to-center distance between phases 185 mm									
	800	1 x 40 x 10	IP31 with protect. top cover XAD...	890	850	790	48	44	38
			IP31 with closed top panel XSPTC...	730	700	650	33	30	26
			IP55	570	550	510	20	18	16
	1000	1 x 60 x 10	IP31 with protect. top cover XAD...	1260	1200	1120	67	60	53
			IP31 with closed top panel XSPTC...	1050	1000	940	46	42	37
			IP55	840	800	750	30	27	24
	1250	1 x 80 x 10	IP31 with protect. top cover XAD...	1680	1600	1500	91	83	73
			IP31 with closed top panel XSPTC...	1360	1300	1220	60	55	48
			IP55	1100	1050	980	39	36	31
	1600	1 x 100 x 10	IP31 with protect. top cover XAD...	1890	1800	1690	96	87	76
			IP31 with closed top panel XSPTC...	1520	1450	1360	62	56	49
			IP55	1260	1200	1120	42	39	34
Flat copper for vertically installed PIFT fuse strips with XDSSH...busbar supports Center-to-center distance between phases 185 mm									
	800	1 x 40 x 10	IP31 with protect. top cover XAD...	890	850	790	48	44	38
			IP31 with closed top panel XSPTC...	730	700	650	33	30	26
			IP55	570	550	510	20	18	16
	1000	1 x 60 x 10	IP31 with protect. top cover XAD...	1260	1200	1120	67	60	53
			IP31 with closed top panel XSPTC...	1050	1000	940	46	42	37
			IP55	840	800	750	30	27	24
	1250	1 x 80 x 10	IP31 with protect. top cover XAD...	1680	1600	1500	91	83	73
			IP31 with closed top panel XSPTC...	1360	1300	1220	60	55	48
			IP55	1100	1050	980	39	36	31
	1600	1 x 100 x 10	IP31 with protect. top cover XAD...	1890	1800	1690	96	87	76
			IP31 with closed top panel XSPTC...	1520	1450	1360	62	56	49
			IP55	1260	1200	1120	42	39	34

xEnergy Switchboards

Max. current load and power loss [Pv] for busbars dropper bars

I_e up to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss Pv		
			25°C A	35°C A	45°C A	25°C W/m	35°C W/m	45°C W/m
A	mm ²							
Flat copper for vertically installed SL fuse strips with XSML... fitting kit Center-to-center distance between phases 185 mm								
800	1 x 40 x 10	IP31 with protect. top cover XAD...	1350	1220	1100	111	91	74
		IP31 with closed top panel XSPTC...	1250	1130	1010	96	78	62
		IP55	1150	1030	910	81	65	51
1000	1 x 60 x 10	IP31 with protect. top cover XAD...	1770	1620	1480	131	110	92
		IP31 with closed top panel XSPTC...	1580	1460	1330	105	89	74
		IP55	1380	1270	1150	80	68	55
1250	1 x 80 x 10	IP31 with protect. top cover XAD...	1960	1820	1670	124	107	90
		IP31 with closed top panel XSPTC...	1770	1640	1500	101	87	73
		IP55	1540	1420	1290	77	65	54
1600	1 x 100 x 10	IP31 with protect. top cover XAD...	2110	1960	1800	119	103	87
		IP31 with closed top panel XSPTC...	1910	1770	1620	98	84	70
		IP55	1660	1530	1390	74	63	52



Max. current load and power loss [Pv] for busbars dropper bars for SL - section to section up to 3200 A

I_e up to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss Pv		
			25°C A	35°C A	45°C A	25°C W/m	35°C W/m	45°C W/m
A	mm ²							
Flat copper for vertically installed SL fuse strips with XSMLV-I... fitting kit Dropper bars combinable								
1600	2 x 40 x 10	IP31 with protect. top cover XAD...	2140	2000	1860	150	131	141
		IP31 with closed top panel XSPTC...	1980	1830	1700	129	110	95
		IP55	1780	1600	1440	104	84	68
2000	2 x 60 x 10	IP31 with protect. top cover XAD...	2700	2520	2340	168	146	126
		IP31 with closed top panel XSPTC...	2600	2400	2200	156	133	112
		IP55	2150	2000	1820	107	92	76
2500	2 x 80 x 10	IP31 with protect. top cover XAD...	3200	2940	2700	186	157	132
		IP31 with closed top panel XSPTC...	3030	2750	2500	167	137	113
		IP55	2460	2270	2060	110	93	77
3200	2 x 100 x 10	IP31 with protect. top cover XAD...	3350	3080	2820	171	144	121
		IP31 with closed top panel XSPTC...	2750	2590	2420	115	102	89
		IP55	2360	2200	2030	85	71	63

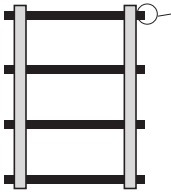
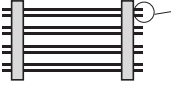
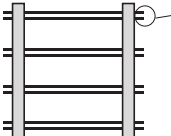
Max. current load and power loss [Pv] for busbars dropper bars for XW-section up to 2000 A

I_e up to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss Pv		
			25°C A	35°C A	45°C A	25°C W/m	35°C W/m	45°C W/m
A	mm ²							
Flat copper for XW-modules, with XDSF...-MC Center-to-center distance between phases 60 mm								
1000	1 x 40 x 10	IP31 with protect. top cover XAD...	1260	1165	1070	97	83	70
		IP31 with closed top panel XSPTC...	1135	1050	960	79	67	56
		IP55	1080	1000	920	71	61	52
2000	2 x 40 x 10	IP31 with protect. top cover XAD...	2530	2330	2130	210	178	149
		IP31 with closed top panel XSPTC...	2275	2100	1920	170	145	121
		IP55	2160	2000	1840	153	131	111

ATTENTION! Use Cu according to standard EN 13601-CU-ETP-R250-SH

xEnergy Switchboards

Max. current load and power loss [Pv] for busbars main busbars

	I_e up to	Busbar cross-section L1, L2, L3 and full N	Degree of protection	Permissible continuous current I depending on ambient temperature and degree of protection of the distribution sections			Power loss Pv		
				25°C A	35°C A	45°C A	25°C W/m	35°C W/m	45°C W/m
A	mm ²								
Main busbars									
Flat copper at the rear with XBBS... busbar supports Center-to-center distance between phases 180 mm									
	1600	2 x 40 x 10	IP31 with protect. top cover XAD...	2140	2000	1860	150	131	114
			IP31 with closed top panel XSPTC...	1980	1830	1700	129	110	95
			IP55	1780	1600	1440	104	84	68
	2000	2 x 60 x 10	IP31 with protect. top cover XAD...	2700	2520	2340	168	146	126
			IP31 with closed top panel XSPTC...	2600	2400	2200	156	133	112
			IP55	2150	2000	1820	107	92	76
	2500	2 x 80 x 10	IP31 with protect. top cover XAD...	3200	2940	2700	186	157	132
			IP31 with closed top panel XSPTC...	3030	2750	2500	167	137	113
			IP55	2460	2270	2060	110	93	77
	3200	3 x 80 x 10	IP31 with protect. top cover XAD	3900	3600	3400	184	157	140
			IP31 with closed top panel XSPTC...	3530	3250	3000	151	128	109
			IP55	2950	2730	2500	105	90	76
	4000	3 x 80 x 10	IP31 with protect. top cover XAD	4060	3750	3430	199	170	142
			IP31 with closed top panel XSPTC...	3730	3470	3200	168	146	124
			IP55	3070	2850	2620	114	98	83
5000	2x (3 x 80 x 10)	IP31 with protect. top cover XAD	6290	5750	5230	239	200	165	
		IP31 with closed top panel XSPTC...	5780	5280	4800	202	169	139	
		IP55	4810	4400	4000	140	117	97	
Flat copper at the top with XBS...-1 busbar supports Center-to-center distance between phases 60 mm									
	800	2 x 20 x 10	IP31 with protect. top cover XAD...	1030	950	860	65	55	45
			IP31 with closed top panel XSPTC...	880	800	720	47	39	32
			IP55	690	630	560	29	24	19
	1250	2 x 40 x 10	IP31 with protect. top cover XAD...	1625	1500	1360	87	74	61
			IP31 with closed top panel XSPTC...	1375	1250	1125	62	51	42
			IP55	1100	1000	880	40	33	25
	1600	2 x 60 x 10	IP31 with protect. top cover XAD...	1950	1800	1640	88	75	62
			IP31 with closed top panel XSPTC...	1650	1500	1350	63	52	42
			IP55	1380	1250	1110	44	36	28
Flat copper at the top with XBS... busbar supports Center-to-center distance between phases 125 mm									
	1250	2 x 40 x 10	IP31 with protect. top cover XAD...	1950	1800	1600	125	106	84
			IP31 with closed top panel XSPTC...	1650	1500	1350	89	74	60
			IP55	1470	1300	1120	71	56	41
	1600	2 x 60 x 10	IP31 with protect. top cover XAD...	2500	2300	2100	144	122	102
			IP31 with closed top panel XSPTC...	2200	2000	1800	112	92	75
			IP55	1880	1700	1520	81	67	53
	2000	2 x 80 x 10	IP31 with protect. top cover XAD...	2930	2720	2500	156	134	113
			IP31 with closed top panel XSPTC...	2430	2230	2030	107	90	75
			IP55	2180	1980	1780	86	71	57
	2500	2 x 100 x 10	IP31 with protect. top cover XAD	3350	3080	2820	171	144	121
			IP31 with closed top panel XSPTC...	2750	2590	2420	115	102	89
			IP55	2360	2200	2030	85	74	63
	3200	2 x 120 x 10	IP31 with protect. top cover XAD	3600	3350	3120	174	151	131
			IP31 with closed top panel XSPTC...	3320	3060	2800	148	126	105
			IP55	2560	2350	2140	88	74	61

ATTENTION! Use Cu according to standard EN 13601-CU-ETP-R250-SH

xEnergy Switchboards

Standards, formulae, tables - protective measures

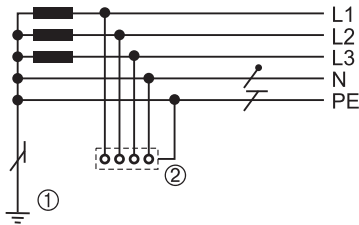
Protection against indirect contact by means of disconnection or indication

The conditions for disconnection depend on the type of network system in use and on the selected protective devices.

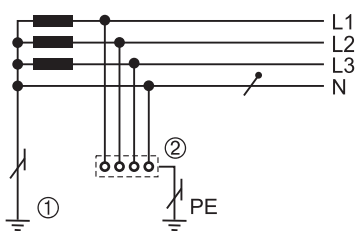
Systems acc. to IEC 364-3/VDE 0100 Part 310

Systems depending on the type of connection to earth

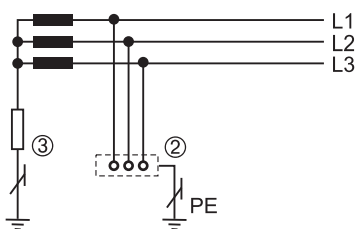
TN network



TT network



IT network



- ① System earth
- ② Chassis
- ③ Impedance

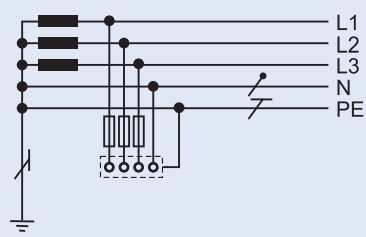
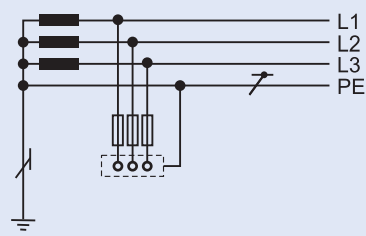
Meaning of abbreviations

- T: Direct earthing of one point (system earth)
- N: Chassis directly connected to the system earth

- T: Direct earthing of one point (system earth)
- N: Chassis directly earthed, independent from the earthing of the power supply (system earth)

- I: All live parts isolated from earth or one point connected to earth via an earth through impedance
- T: Chassis directly earthed, independent from the earthing of the power supply (system earth)

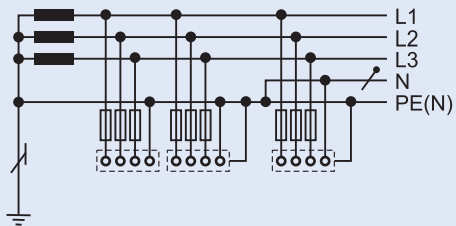
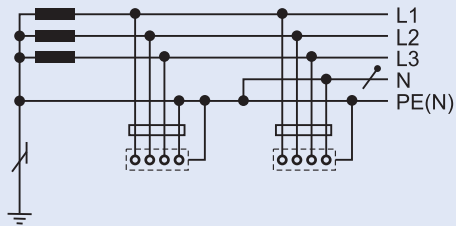
Protective devices and conditions for disconnection acc. to IEC 364-4-1/VDE 0100 Part 410

Type of network system	TN-System		
Protected through	Circuit principle	Designation so far	Condition for disconnection
Overcurrent protective device	TN-S-System Separate neutral and protective conductors throughout the system 		$Z_s \times I_a \leq U_0$ Z_s = Impedance of the fault circuit I_a = Current that causes disconnection in: <ul style="list-style-type: none"> • ≤ 5 s • $\leq 0,2$ s in circuits up to 35 A with sockets and stationary, handheld components U_0 = Rated voltage against earthed conductor
Fuses Miniature circuit breakers Circuit breakers	TN-C-System Neutral conductor and protective functions throughout the system are combined in a single PEN conductor 	Protective multiple earthing	

xEnergy Switchboards

Standards, formulae, tables - protective measures

Protective devices and conditions for disconnection acc. to IEC 364-4-1/VDE 0100 Part 410

Type of network system	TN System		
Protected through	Circuit principle	Designation so far	Condition for disconnection
Overcurrent protective device	<p>TN-C-S-System Neutral conductor and protective functions in a part of the system are combined in a single PEN conductor</p> 		
Residual current protective device		RCD protective circuit	$Z_s \times I_{\Delta n} \leq U_0$ $I_{\Delta n}$ = Rated fault current U_0 = Max. permissible touch voltage: (≤ 50 V AC, ≤ 120 V DC)
Residual voltage protective device (special case)			
Insulation monitoring device			

xEnergy Switchboards

Overview of circuit types for incoming supplies, outgoers and couplings of 800 up to 5000 A, rear-mounted busbars

Overview of circuit types/network types for xEnergy with rear-mounted XP busbars + IZM1,2,3/NZM4

TN-S

Main busbar: 4 cond. L1, L2, L3, N
 Device: 4 poles L1, L2, L3, N
 Connection: 5 cond. L1, L2, L3, N

TN-S

Main busbar: 4 cond. L1, L2, L3, N
 Device: 3 poles L1, L2, L3
 Connection: 5 cond. L1, L2, L3, N

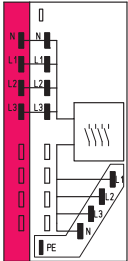
TN-C

Main busbar: 3 cond. L1, L2, L3
 Device: 3 poles L1, L2, L3
 Connection: 4 cond. L1, L2, L3

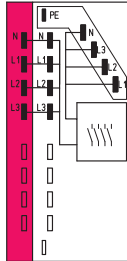
TN-C-S

Main busbar: 4 cond. L1, L2, L3, N
 Device: 3 poles L1, L2, L3
 Connection: 4 cond. L1, L2, L3

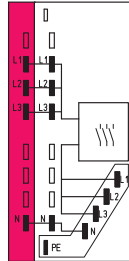
E13-45



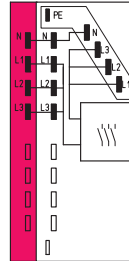
E11-45



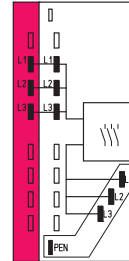
E13-35N



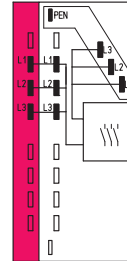
E11-35



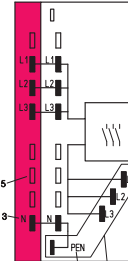
E13-34



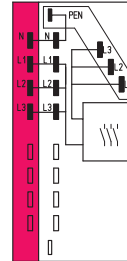
E11-34



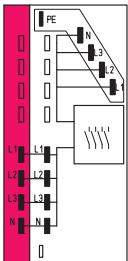
E13-34N



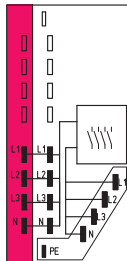
E11-34



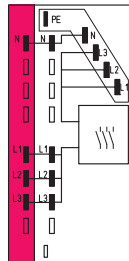
E31-45



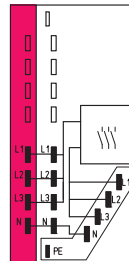
E33-45



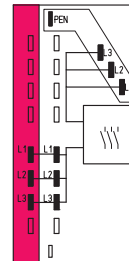
E31-35N



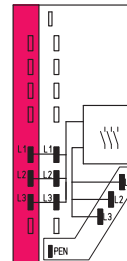
E33-35



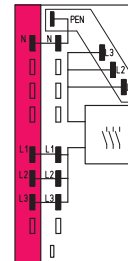
E31-34



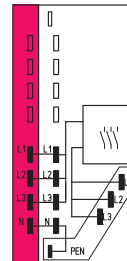
E33-34



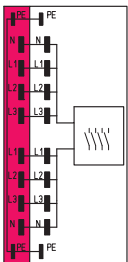
E31-34N



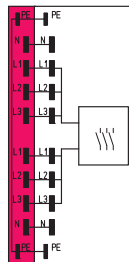
E33-34



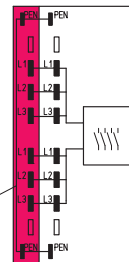
K13-45



K13-35



K13-34



xEnergy_Schaltungsarten

- ① Connection system: XCSIY and Wöhner
 - ② TN-C-S: Connection PEN to main busbar N = main conductor cross-section
 - ③ Main busbar-N: runs through all system sections of individual N brackets
 - ④ PE at the top to PE at the bottom: Necessary with a change of the connection direction.
Can be implemented in each section.
 - ⑤ Main busbar system: area for second busbar system (main busbar can lead through each system section) or area for N conductor
- additional busbar area with 5000 A

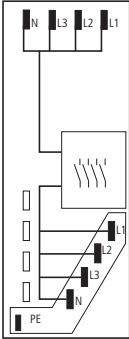
xEnergy Switchboards

Overview of circuit-types for incoming supplies and outgoers of 800 up to 3200 A, top-mounted busbars

TN-S

Main busbar: 4 cond. L1, L2, L3, N
 Device: 4 poles L1, L2, L3, N
 Connection: 5 cond. L1, L2, L3, N

E13-45

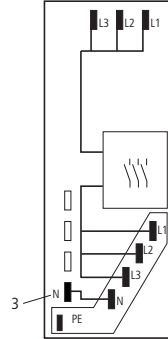


00159241_0

TN-S

Main busbar: 4 cond. L1, L2, L3, N
 Device: 3 poles L1, L2, L3
 Connection: 5 cond. L1, L2, L3, N

E13-35N

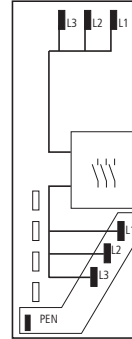


00159251_0

TN-C

Main busbar: 3 cond. L1, L2, L3
 Device: 3 poles L1, L2, L3
 Connection: 4 cond. L1, L2, L3

E13-34

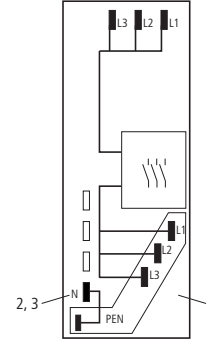


00160296_0

TN-C-S

Main busbar: 4 cond. L1, L2, L3, N
 Device: 3 poles L1, L2, L3
 Connection: 4 cond. L1, L2, L3

E13-34N



00160306_0

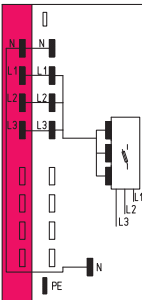
- ① Connection system: XCSIY and Wöhner
- ② TN-C-S: connection PEN to main busbar N = main conductor cross-section
- ③ Main busbar - N: runs through all system sections of individual N brackets position as with main busbar - N of rear-mounted busbars

Overview of circuit types for sections with PIFT switch fuse units or SL fuse switch disconnectors, vertical, outgoers up to 630 A, busbars rear-mounted

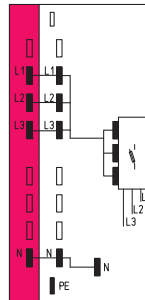
Overview of circuit types/network types for xEnergy with rear-mounted XF busbar + SSL (SL)

TN-S

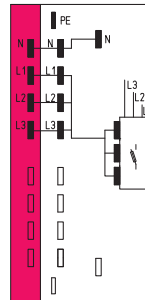
A13-45



A13-35N

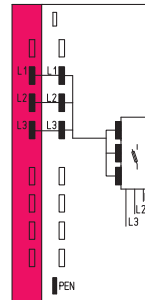


A11-35

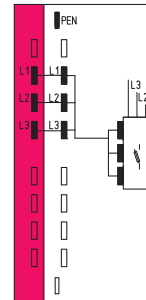


TN-C

A13-34

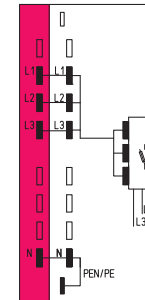


A11-34

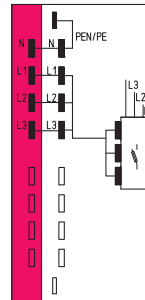


TN-C-S

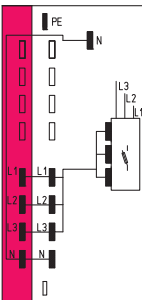
A13-34/35N



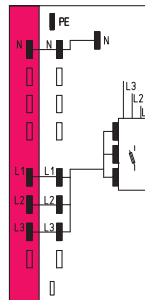
A11-34/35



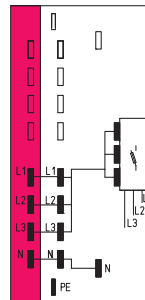
A31-45



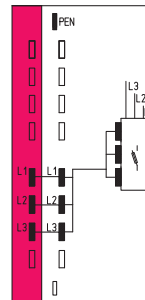
A31-35N



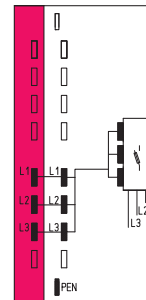
A33-35



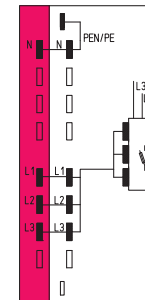
A31-34



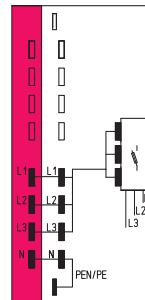
A33-34



A31-34/35N



A33-34/35

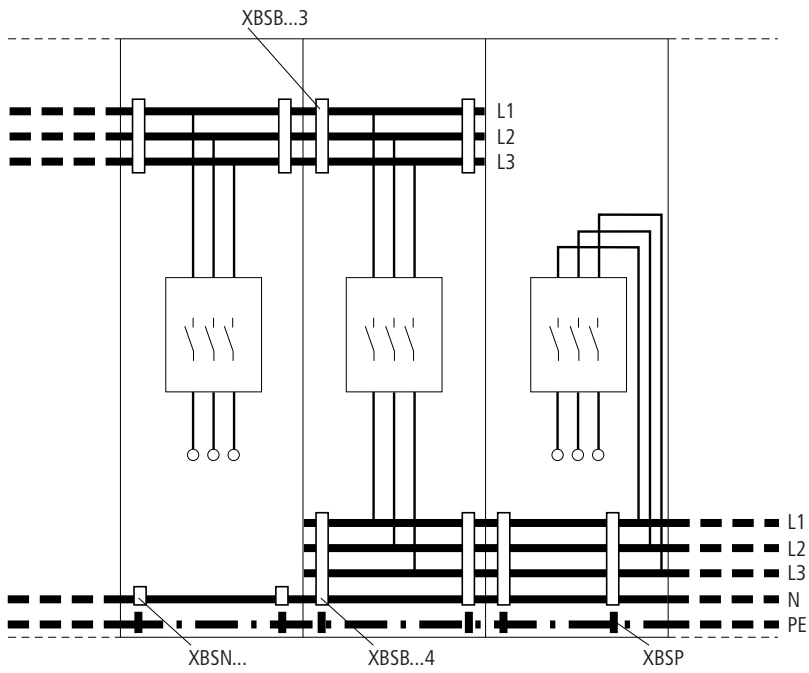


xEnergy_Schaltungsarten_SL

For 5000 A, the red-coloured parts are required in addition.

xEnergy Switchboards

Design example of rear-mounted busbars for section combinations with two incoming supplies and a coupling for TN-S- networks, 3-pole circuit



00160456_0

xEnergy Switchboards

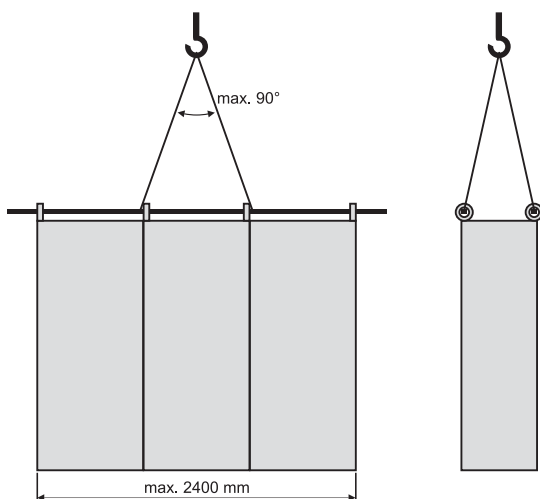
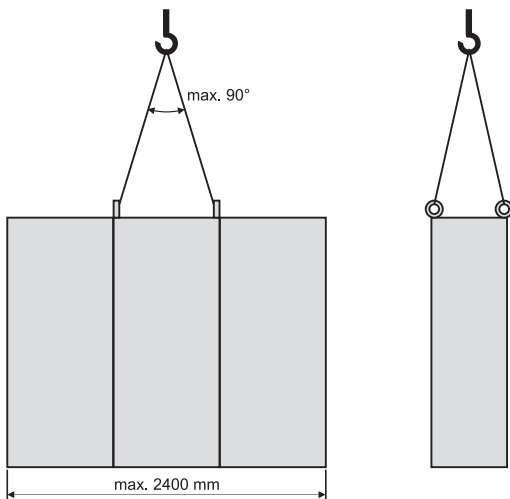
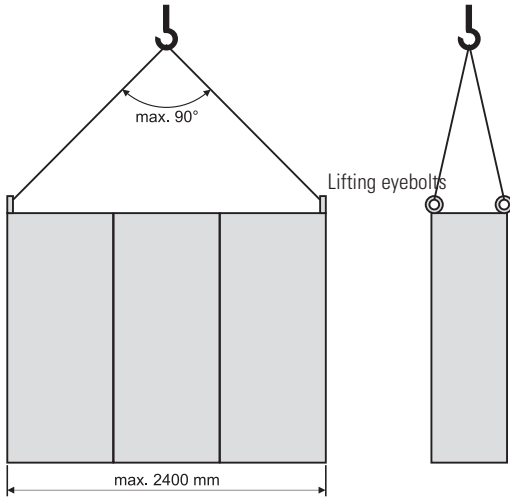
Transport and dimensions Transport examples for switchboard combinations

Transport examples for switchboard combinations

A switchboard combination assembled with connection kits that we provide can only be transported if 4 lifting eyebolts are used as

shown in the examples below. The angle of the transport ropes at the suspension point should not exceed 90°.

The width of a combination should not exceed 2400 mm.
Max. 1000 kg.



Transp_Schrankkombi

Recommendation:

Fully equipped, copper-carrying sections should be individually transported.

xEnergy Switchboards

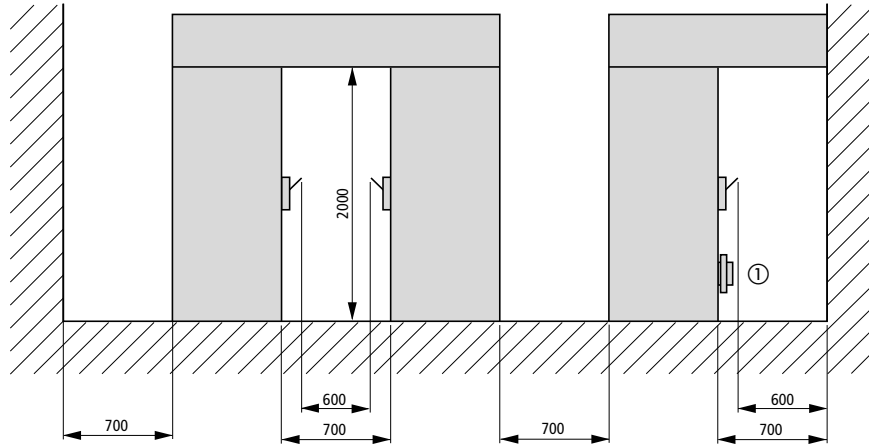
Further information setup instructions for xEnergy

Operation and maintenance gangways within switchgear assemblies

The minimum width for operation and maintenance gangways of switchgear assemblies is 700 mm, the minimum headroom under

the panelling is 2000 mm. If a lift truck is used for exchanging circuit breakers, gangway dimensions must be taken into account dur-

ing the design stage.



① drawer unit in disconnected position

Systems for 5000 A rated current at the main busbar (depth = 1000 mm) must allow for access from the rear. A minimum clearance

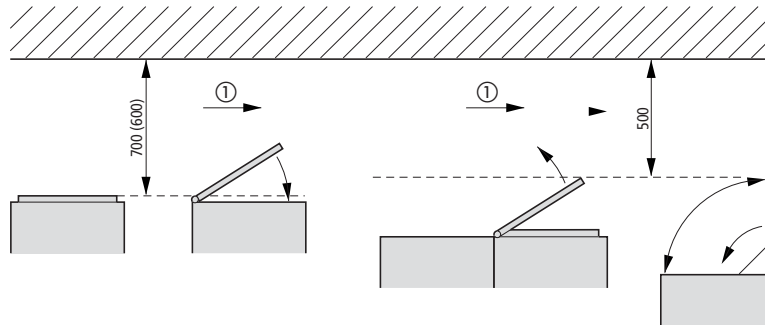
of 700 mm to the nearest wall or to the next cabinet must be respected so as to ensure an uncomplicated setup of the system and the

correct execution of service jobs.

Doors of a switchgear assembly should be arranged in a way that they close in the direction of the emergency exit route. With a differ-

ent arrangement, a free minimum clearance of 500 mm must be provided for. If switchgear combinations are set up opposite

each other, it is not necessary to anticipate that the doors on both sides are open at the same time.

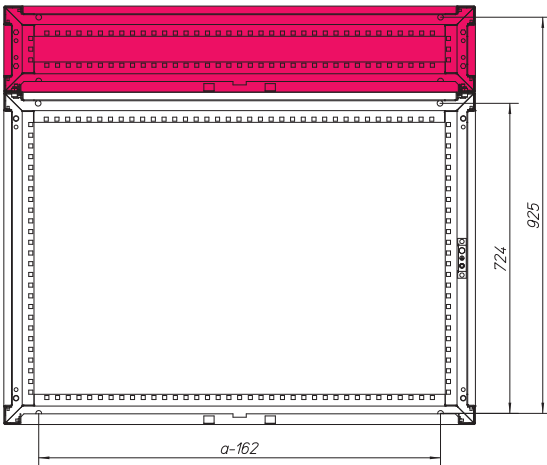


① Direction of the emergency exit route

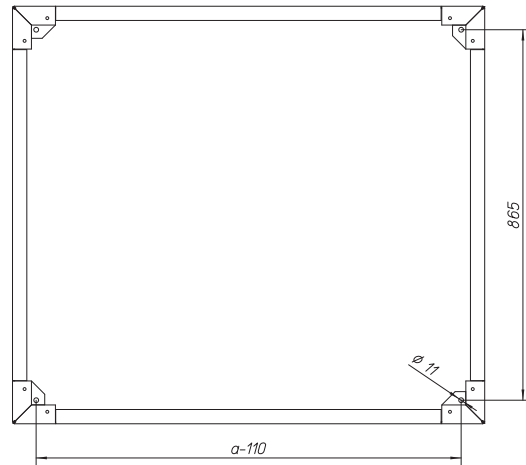
xEnergy Switchboards

Further information setup instructions for xEnergy

Bottom view of distribution sections



Bottom view of plinth



For 5000 A, the red-coloured parts are required in addition.

e.g. a (section width) - 162 = distance between the holes for fixing the plinth

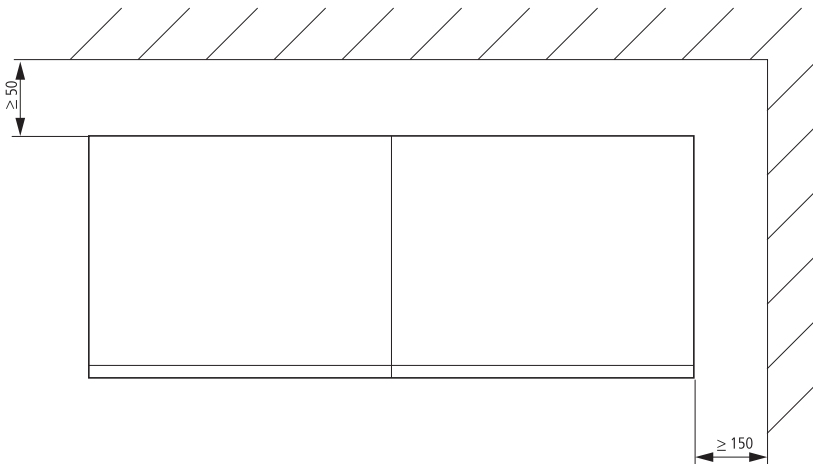
a = section width

Section width 425, 600, 800, 850, 1000, 1100, 1200 and 1350 mm

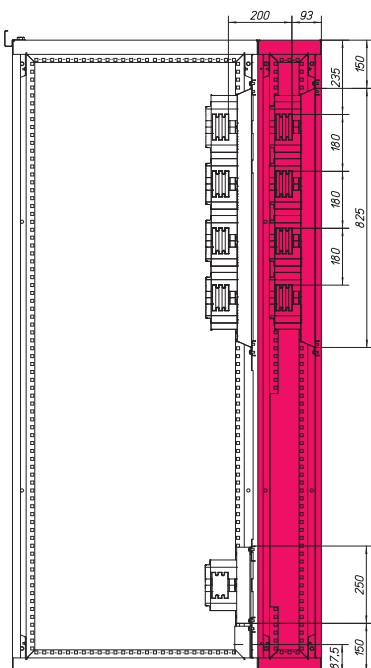
Section depth with section door 400, 600, 800 and 1000 (800 + 200) mm

Section depth without section door 375, 575, 775 and 975

Top view of setup (stand-alone)



General overview - side view of a section

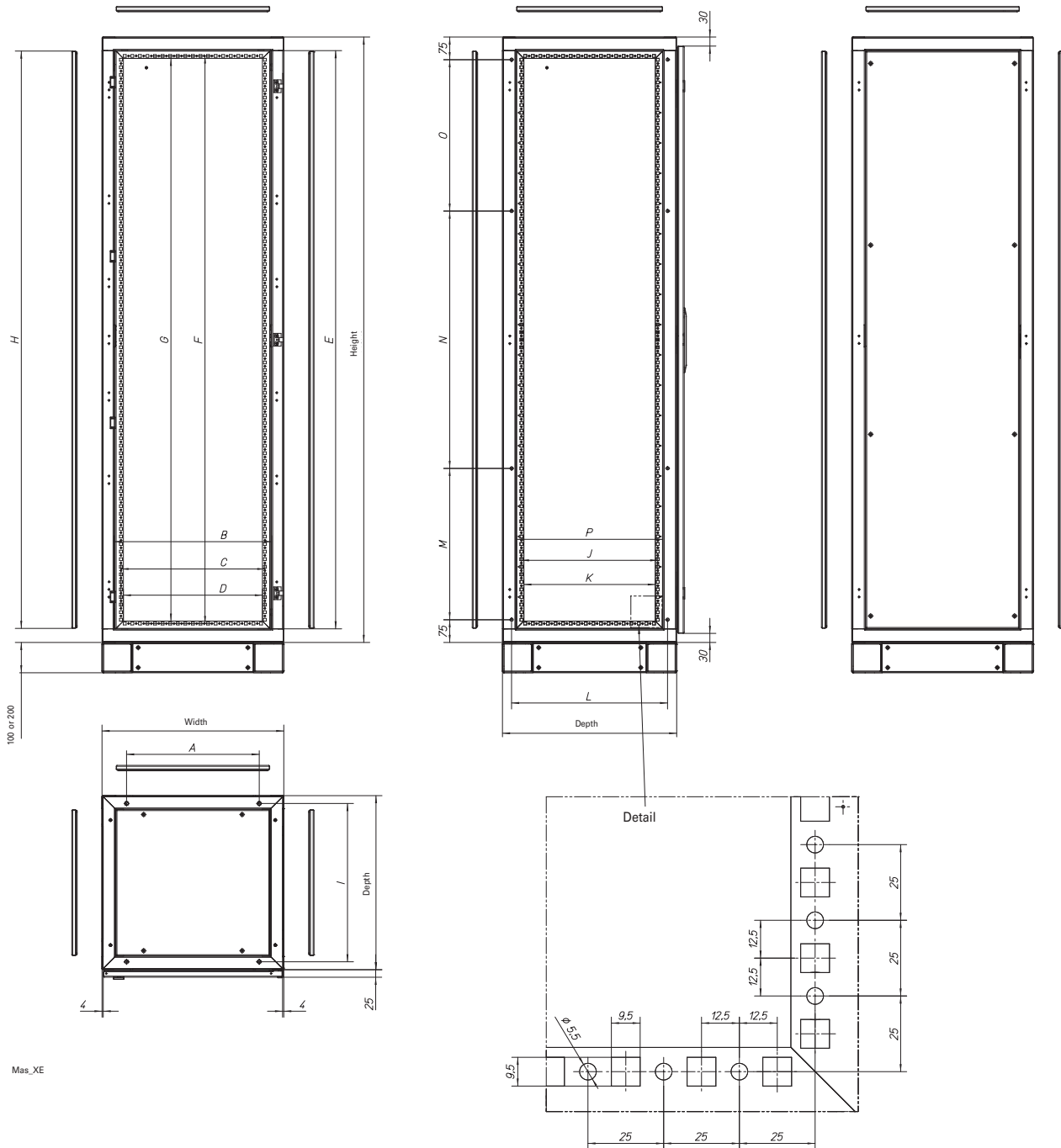


For 5000 A, the red-coloured parts are required in addition.

xEnergy Switchboards

Dimensions

xEnergy Dimensions



Width	A	B	C	D
425	263	345	300	284
600	438	520	475	459
800	638	720	675	659
850	688	770	725	709
1000	838	920	875	859
1100	938	1020	975	959
1200	1038	1120	1075	1059
1350	1188	1270	1225	1209

Height	E	F	G	H
2000	1910	1875	1859	1907

Depth ¹⁾	Depth ²⁾	I	J	K	L	P
400	375	323	250	234	315	182
600	575	523	450	434	515	482
800	775	723	650	634	715	682

Distance between the holes			
Height	M	N	O
2000	500	850	500

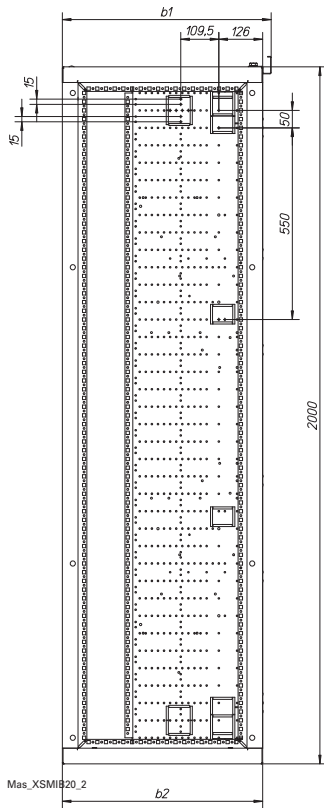
¹⁾ Depth according Ordering Part
²⁾ Real Depth

Double-wing doors are used as of width 1000.

xEnergy Switchboards

Dimensions - XG Empty sections

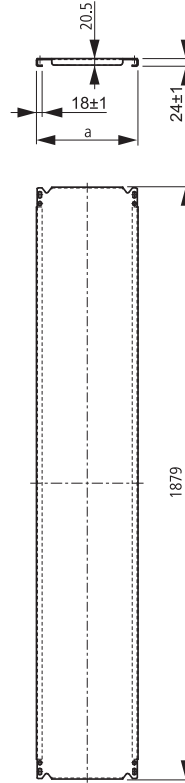
XSMIB20



b1	b2
600	575
800	775

Mas_XSMIB20_2

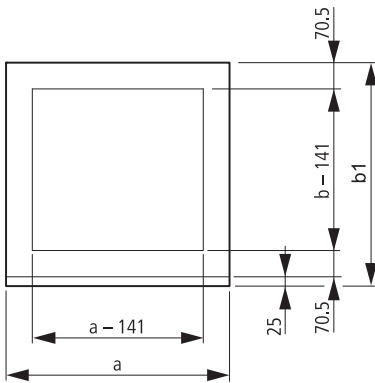
Fitting kit for mounting plates as high as the section
XSMMF20...



a
322
497
697
897
1097

00163663_0

Section bottom clearance
XSFB...



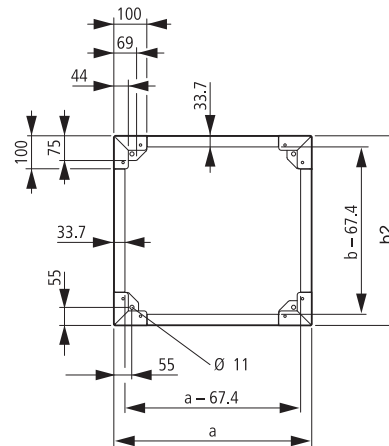
00163673_0

a
425
600
800
850
1000
1100
1200
1350

b1	b2
600	575
800	775
1000	975

b1 = Depth with door
b2 = Section depth without door

Floor-fixing of plinth
XAP...

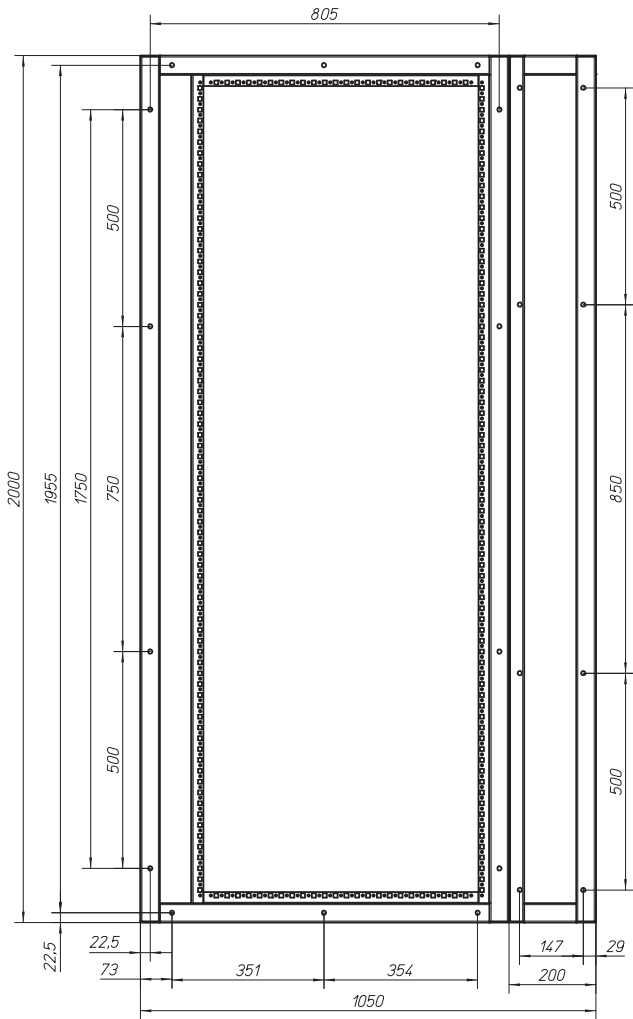


00163693_0

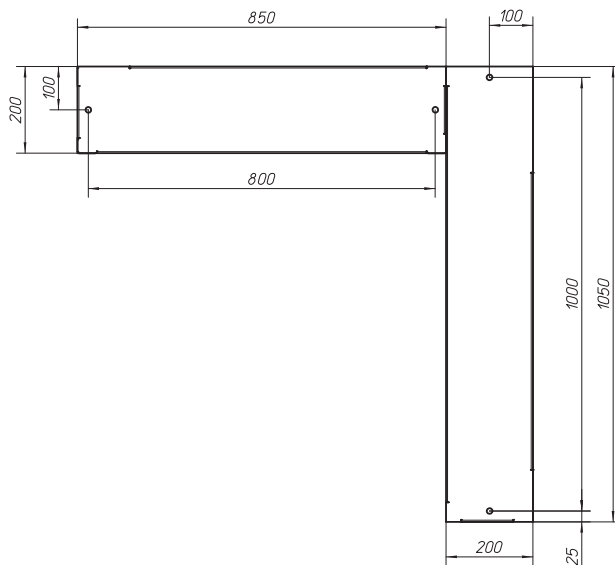
xEnergy Switchboards

Dimensions

Corner sections in 5000 A systems



Corner sections in 5000 A systems need to be set up in the same way as standard frames, i.e. with an additional frame of 200 mm depth. This additional frame must be fixed at the rear of a standard corner section of 800 mm depth. The total section depth is 1000 mm.

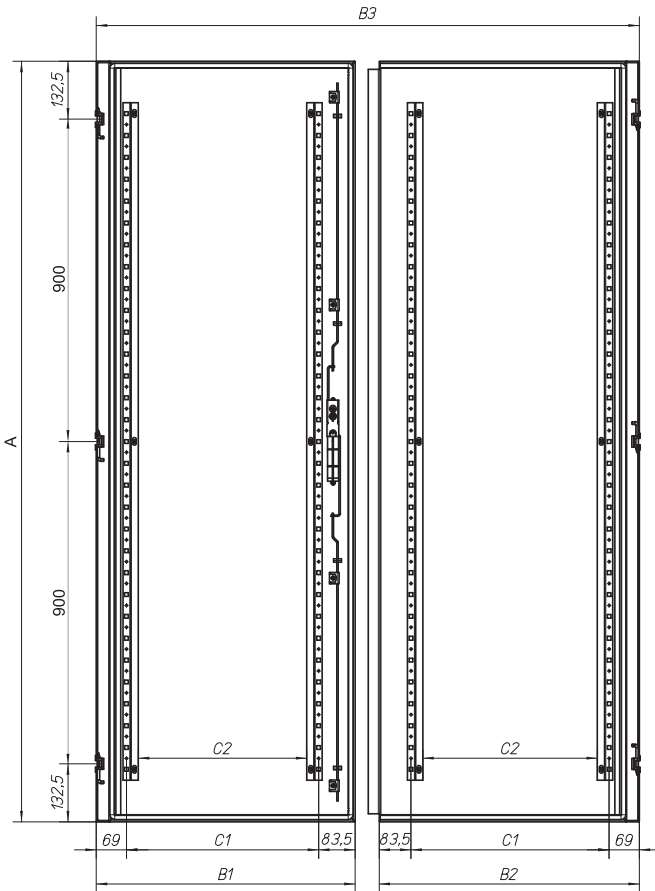


Mas_Eckfeld_5000A

xEnergy Switchboards

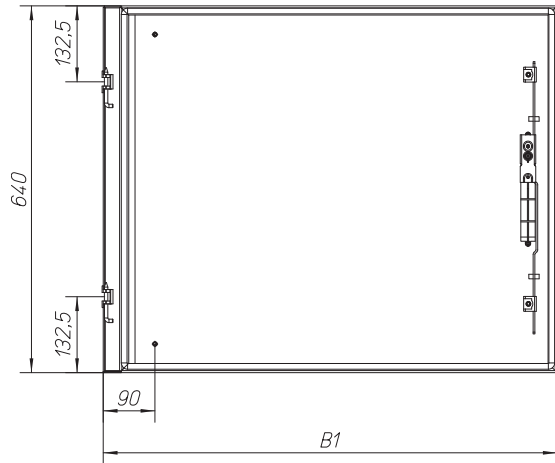
Dimensions

Doors as high as the section



Mas_XSDMC

Door to switchgear area - height 640 mm (1/3 door)



Mas_XE_Dritteltuer

Width	B1
425	425
600	600
800	800
1000	1000
1100	1100
1200	1200

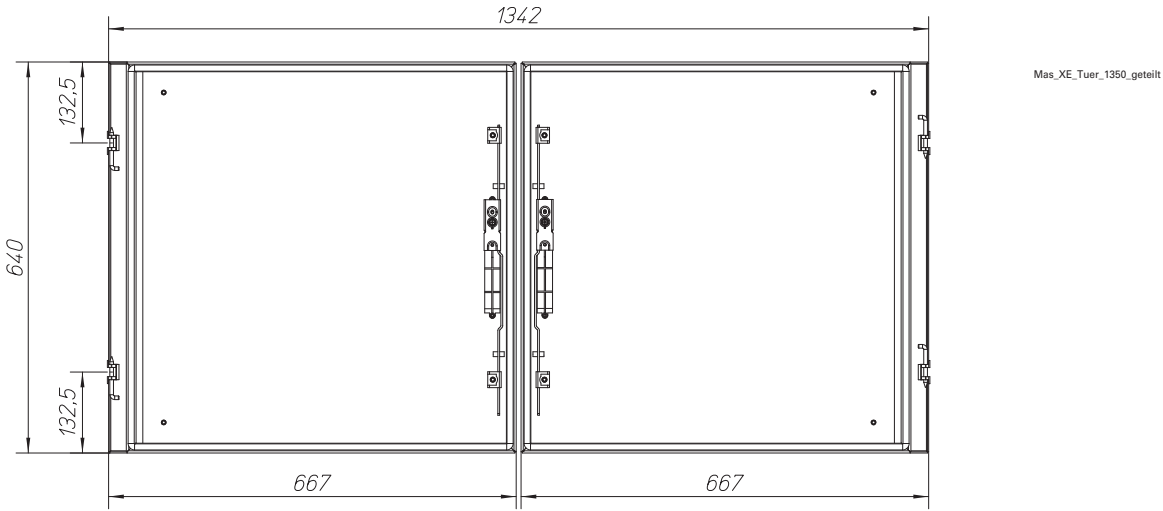
Width	B1	B2	B3	C1	C2
425	417	-	-	264,5	210,5
600	592	-	-	439,5	385,5
800	792	-	-	639,5	585,5
850	842	-	-	689,5	635,5
1000	992	-	-	839,5	785,5
1000	492	495	992	339,5	285,5
1100	542	545	1092	389,5	335,5
1200	592	595	1192	439,5	385,5
1350	667	670	1342	514,5	460,5

Height	A
2000	1940

xEnergy Switchboards

Dimensions

Door to switchgear area, divided in the middle, for 1350 mm section width



Door to switchgear area for main busbar area at the top

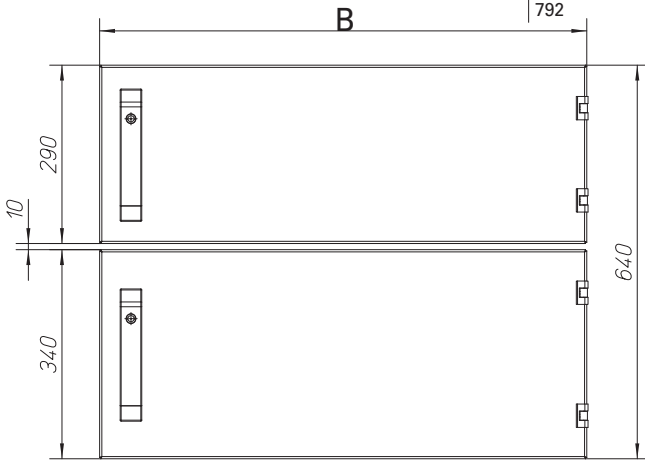
In section width of 800 mm only

Options:

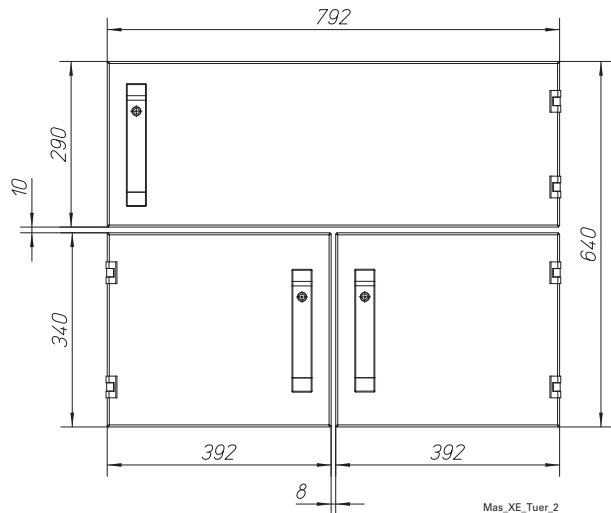
- Two undivided doors as wide as the section
- Door H-290mm = Door to main busbar area
- Door H-340mm = Door to switchgear area

Width	B
	417
	592
	792

- One undivided door as wide as the section
- A pair of doors, together as wide as the section
- Door H-290mm = Door to main busbar area
- Door H-340mm = Door to switchgear area

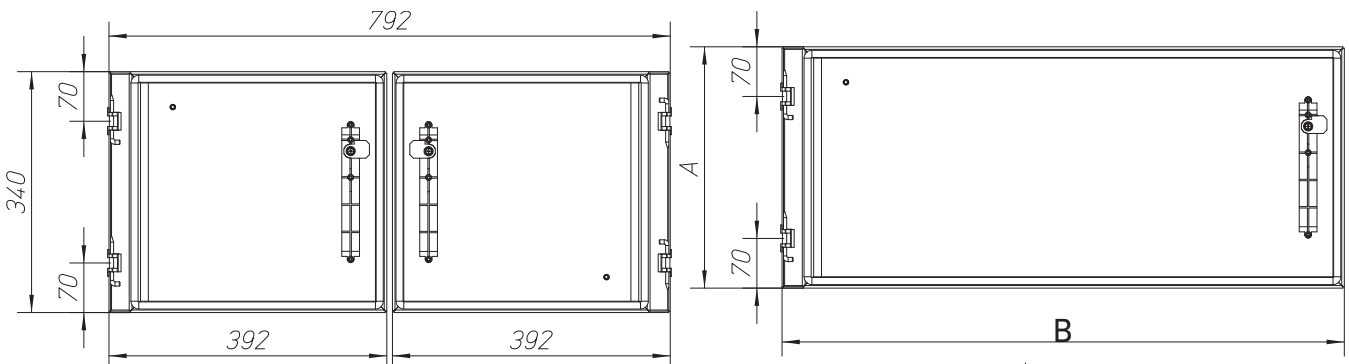


Mas_XE_Tuer_1



Mas_XE_Tuer_2

Detailed drawings of the doors to the switchgear area



Mas_XE_Tuer_Detail_1

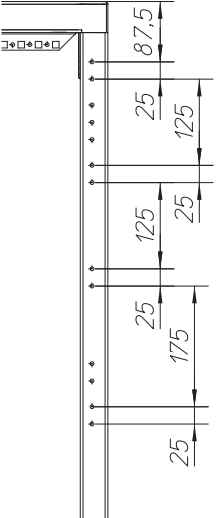
Height	Width	
	A	B
290	417	592
340	592	792

Mas_XE_Tuer_Detail_2

xEnergy Switchboards

Dimensions

Drilling template for the hinges at the frame stand



Mas_XE_Bohrplan_Scharnier

xEnergy Switchboards

Further information - Passive Arc Fault Protection

Tested according to IEC/TR61641 in combination with a rear-mounted main busbar.

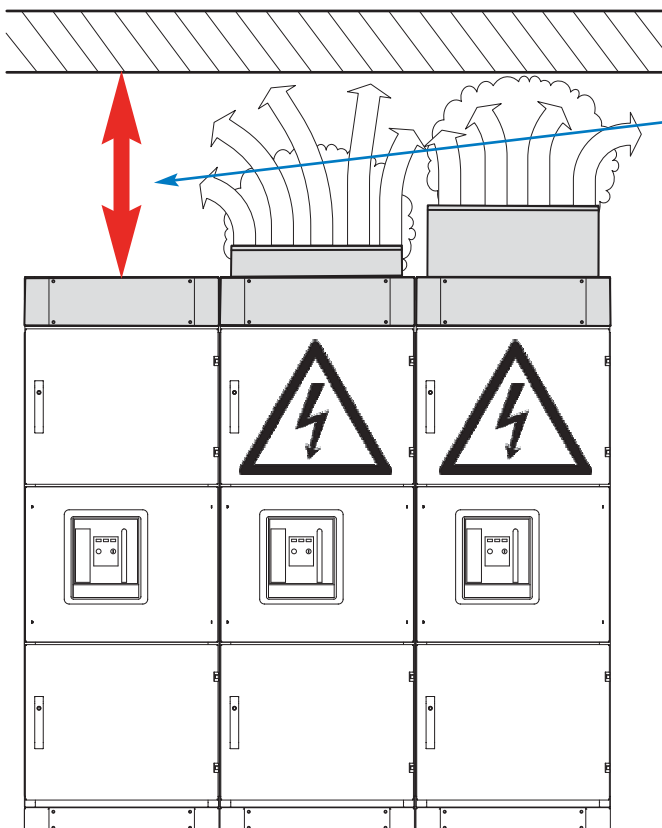
Technical data

Rated frequency		50/60Hz
Uninfluenced current allowed in arc fault conditions	I_{parc}	65kA
Allowed burning duration of an arc fault	t_{arc}	300ms
Rated voltage	U_e	415V
Rated insulation voltage	U_i	1000V
Degree of pollution		3
Degree of protection		IP40
Internal separation		Form 4

Building-related pre-requisites:

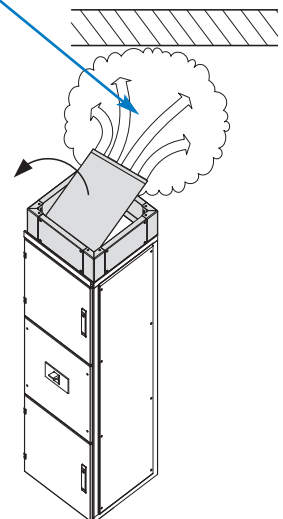
The entire concept of protecting people is based on the idea of making the pressure due to hot gas developing in the cabinet during an arc fault escape through the top. This is why it is compulsory to have sufficient room height and/or space between the cabinet and the ceiling or other superstructures to ensure that the pressure relief covers can open completely. The minimum distance between the upper edge of the

cabinet and the ceiling (or the deepest element of the building) is at least the depth of the cabinet. This is a pre-requisite for the gas to escape from the cabinet without hindrance.



Please make sure there is sufficient free space between the cabinet and the ceiling or any building elements or building structures to allow the covers to open completely (minimum distance is the depth of the cabinet).

Hot gas must be able to escape without any hindrance.



PLBS_1

PLBS_2

xEnergy Switchboards

Further information - Passive Arc Fault Protection

In order to meet **Employees' Safety in the Workplace** requirements, criteria 1-5 must be complied with.

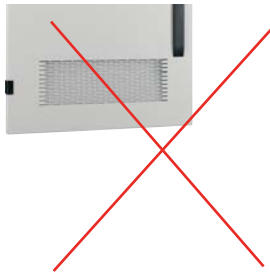
Criterion 1:

a) Ventilations:

Ventilation slots in doors, rear panels, front, floor and top panels are not allowed in order to prevent hot gas from escaping towards people. This is to make sure that hot gas can be guided towards the top panel. The increased pressure building up during an arc fault blows off the

PVC screws in the arc fault cover and all the energy set free in the form of hot gas can escape through the top panel.

No ventilation possible



VT09609

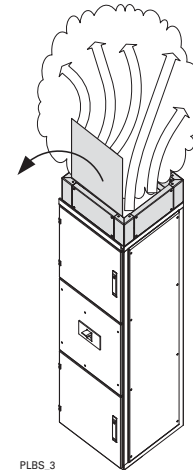
All panels must be without ventilation slots



VT09509

b) Arc fault cover:

The special cover plate is fixed with hinges at the front, and with plastic screws at the back. The increased pressure building up during an upcoming arc fault will tear off the screws and open the cover for the gas to escape. The hinges of the arc fault cover must always be fixed at the front of the cabinet in order not to guide the gas towards people who might be in front of the cabinet.



PLBS_3

c) Properly secured doors - tailhooks:

To make sure that the doors stay closed in case of an arc fault it is necessary to replace the closure hooks of Version 1 doors by a reinforced version with locking hooks (Version 3). Locking hooks version 2 may be used and do not need to be replaced by Version 3. Version 2 is used with all outgoing sections featuring a centre bar. Reinforced locking hooks come as an accessory with the arc fault cover

and do not need to be ordered separately.

Version 1



xE_Fanghaken

Version 2



20130619_143222

Version 3



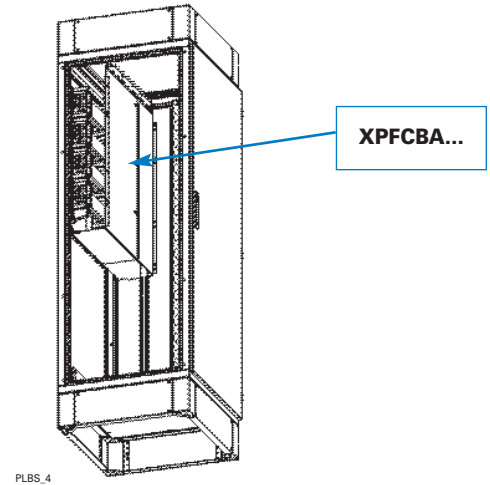
xE_Fanghaken

xEnergy Switchboards

Further information - Passive Arc Fault Protection

d) Internal separation

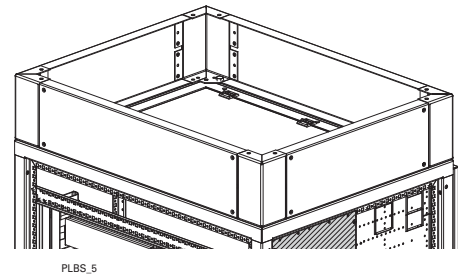
In general sections where the main busbar is covered (by equipment) over the entire section width, the main busbar separation needs to be replaced (i.e. the standard article = XPFCB.. needs to be replaced by a separation suitable for arc fault protection = XPFCBA..). This separation makes sure that the pressure caused by an arc fault can escape through the arc fault protection cover.



Criterion 2: No system elements that might open or be blown off

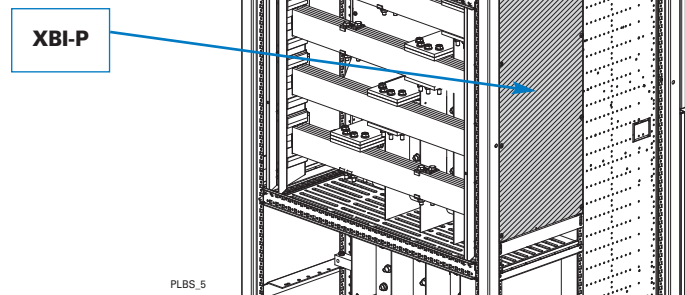
Plinth

In addition it is necessary to fix a plinth at the top of the cabinet to make sure that in case of an arc fault (explosion) the arc fault protection cover does not open any further than 90°. This is to avoid any further hazard due to a suddenly opening cover for people who might be positioned in front of the cabinet. Of course it is not allowed to fix any other system-specific, individual non-secured elements. Doors are secured through Criterion 1.



Criterion 3: No holes in the casing due to the effect of an arc fault (burning holes)

To make sure that in case of an arc fault no gas can escape through the side panels, an additional insulating plate needs to be fixed (XBI-P). This plate will be screw-fixed to the frame and the universal carrier plate (XSMIB20) at the height of the main busbar (height profile). In front of an XAW... side panel respectively.



Criterion 4: No catching fire of vertically positioned indicators

The indicators vertically positioned *during the test* must not catch fire due to escaping gas. Pre-requisite for this not to happen is that there are no ventilation slots or other openings in the panels or in the outer skin. Gaps or cracks must not open up during an upcoming arc fault.

So the re-inforced tailhooks are there to prevent them. An additional function of the plinth at the top is also to guide the escaping hot gas towards the "top". This also ensures that the indicators cannot catch fire and provides the best possible protection for people.

xEnergy Switchboards

Further information - Passive Arc Fault Protection

Criterion 5:

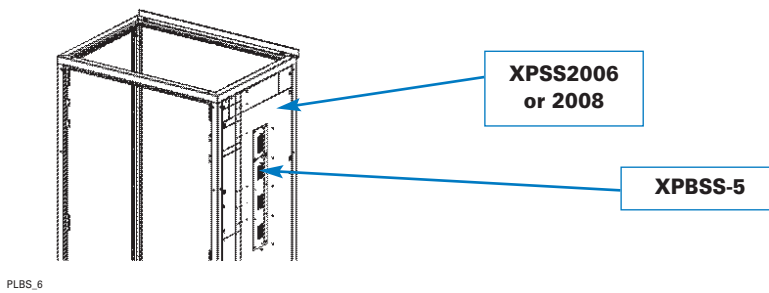
The protective conductor circuit for parts of the casing that can be touched is still fully functional.

System protection is provided for if Criteria 1 to 5 plus Criterion 6 are complied with

Criterion 6:

The arc fault is limited to the defined area within the switchgear assembly and there is no new catching fire possible in the adjacent areas within the switchgear assembly. This can be achieved by adding an additional separation (XPBSS-5) in combination with the section-to-

section separation (XPSS2006 or 2008) between the individual sections. This will make sure that adjacent sections cannot be damaged or affected by an arc fault.

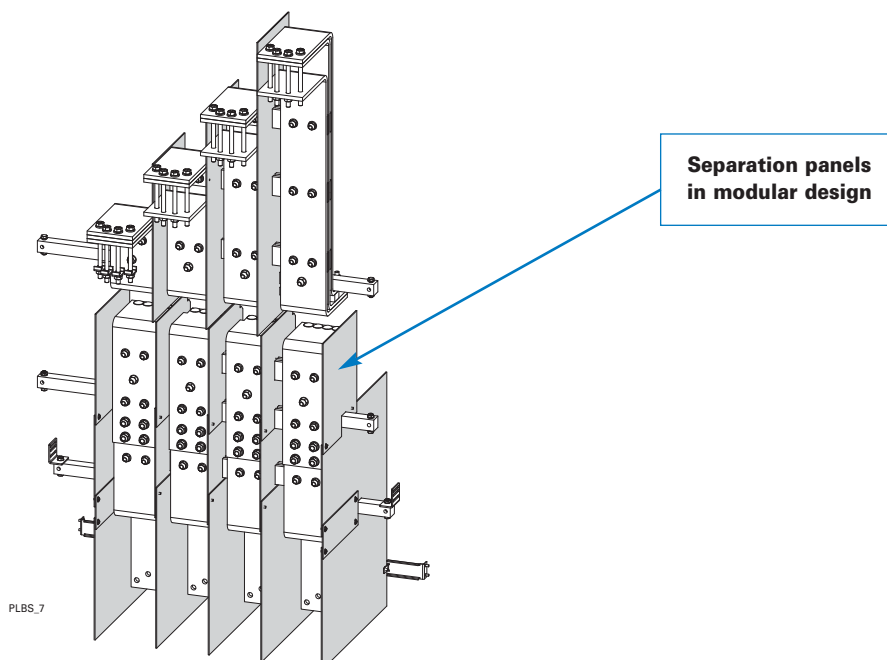


Arc-fault-free zone

This is part of a power circuit within a switchgear assembly where it is not possible to use an ignition wire without destroying the insulation material of the wires.

In our system arc-fault-free zones are limited to XP sections. To be able to make these sections arc-fault-free you need to install insulation plates (XPIX16CC06, XPIX40CC06, XPIX40CC08, XPI63CC10) between the individual Cu conductors.

These insulation plates are designed in a modular way and can be retrofitted (after copper-plating incl. stabilizers). These additional separation panels need to be used with circuit breakers IZMX16 and a section depth of 600mm, with IZMX40 and section depths of 600 and 800mm as well as with IZM63 and a section depth of 1000mm.



xEnergy Switchboards

Further information - Earthquake-safety for xEnergy

Test according to the following standards:

IEC 60068-3-3: Level AG2 and AG5
UBC-Code: Zone 4
IEEE Std 344: class 1E (OBE @ AG2 und SSE @ AG5)
IEEE Std. 693: moderate Level (0,25g) und high Level (0,5g)

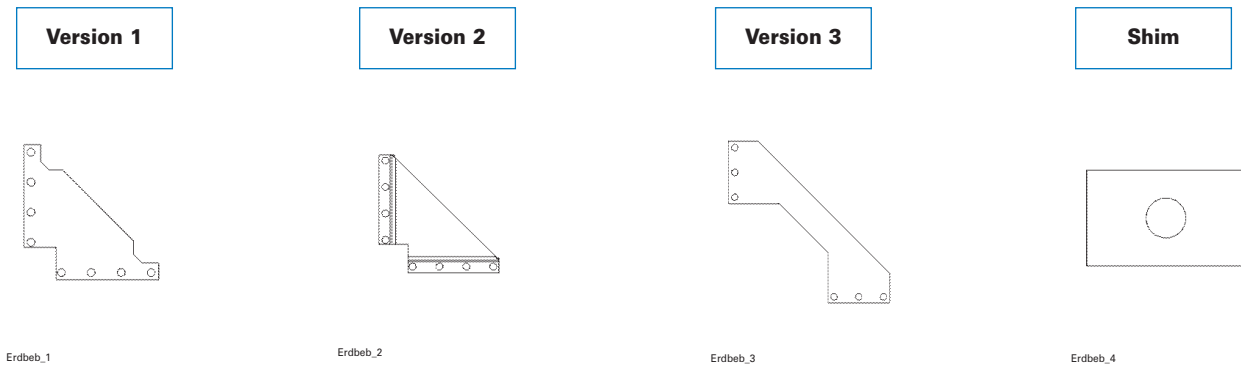
with ongoing operation during an earthquake.

Description of how a bracket set works (XASMS/ Art.no.: 171739)

To reinforce a casing/frame so as to make it resistant to extreme strain that may occur during an earthquake it is necessary to use additional reinforcing brackets (see table below). The required brackets are combi-

ned in a set which can be used per section, irrespective of the type of section (XP, XF, XR, XW, XG). Depending on the configuration of the section, the brackets may/must be fixed at different positions.

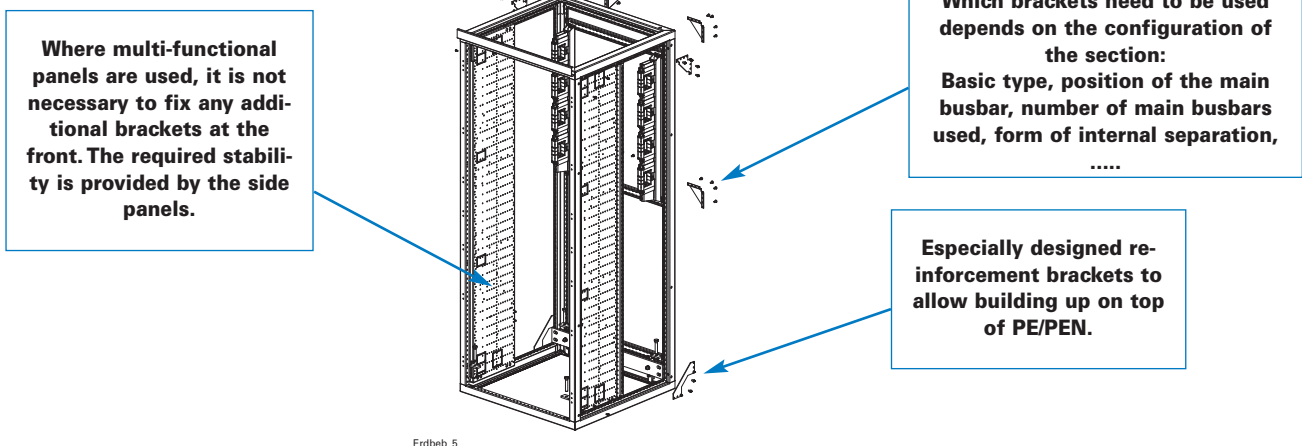
Overview of the different brackets:



Explanation

As a general rule, it depends on the selected basic type and on the configuration of the section where and which brackets should be fixed. This depends on the position of the main busbar, of N, PEN, and 2 x main busbar coupling sections ...

Please refer to the instructions in IL-XASMS-156 to see which type of bracket needs to be used with the different configurations.



Explanation of the cabinet front

As a general rule, it is not necessary to mount additional brackets at the cabinet front with configurations that include fitting kits with universal mounting plates on the side. For applications of this kind the required stability is provided by the lateral universal carrier plates (XSMIB20 with XP or the different multi-functional walls of outgoing sections in Form 4). With general sections (XG) and all variants of

power/outgoing sections in Form 2, it is compulsory to fix reinforcement brackets (version 1) in the front corners. An exception to this rule is when the PE/PEN conductor is mounted at the front of the section. In this case please use „Version 3“ brackets. These brackets have a special design/shape which allows the PE/PEN conductor to be inserted without any problem.

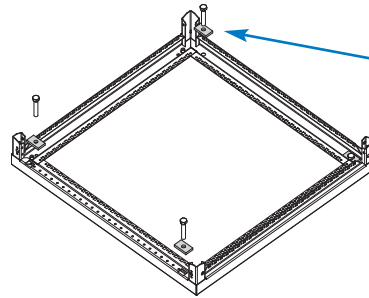
xEnergy Switchboards

Further information - Earthquake security for xEnergy

Fixing of the cabinets

Cabinets must be secured against slipping or unintended moving at their location. For this purpose it is necessary to screw-fix the cabinets on the floor. To be able to fix the cabinet frame sufficiently on the floor, please use special shims between the frame and the fixing screw. These shims make sure that the fixing screws cannot be pulled

through the enclosure in the event of an earthquake (enlargement/reinforcement of the contact surface of the fixing screws); they are also included in the reinforcement brackets set.



Erdbeb_6

Reinforcement plates prevent the screws from being pulled through the frame during an earthquake.

xEnergy Switchboards

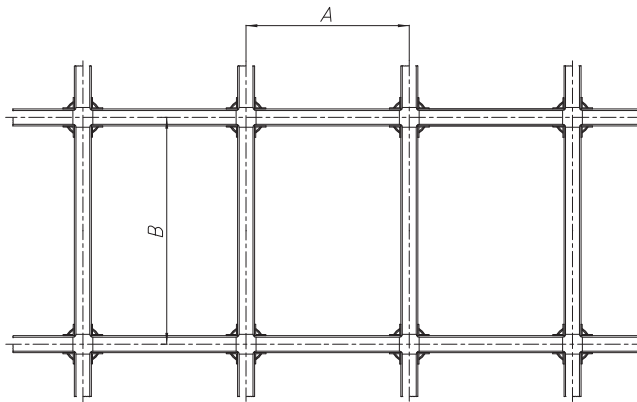
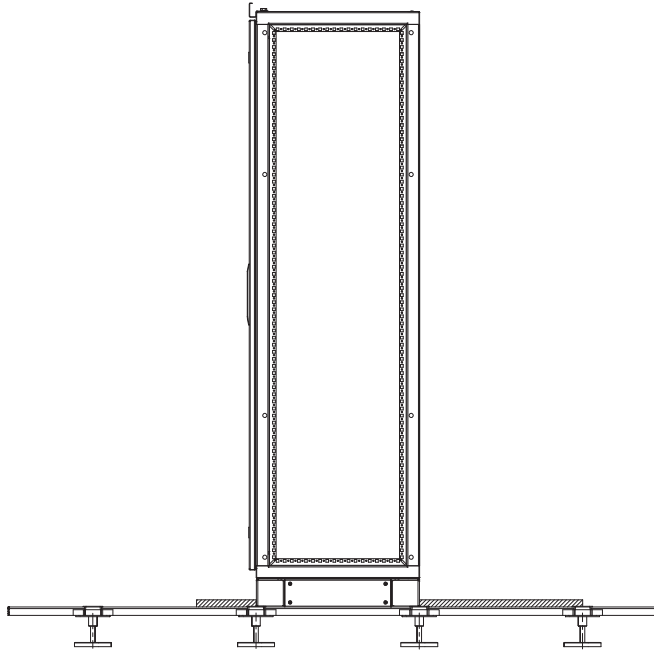
Further information - Setup instructions for xEnergy

If the xEnergy system is set up on a paved floor (no false floor), tolerances of the floor must not exceed +/- 2mm. On floors with an unevenness of >2mm you need to use I or U-shaped profiles to provide for an even surfa-

ce. Ideally these profiles should be integrated in the floor beforehand.

If false floors are installed on site, they need to be installed as shown in the drawing

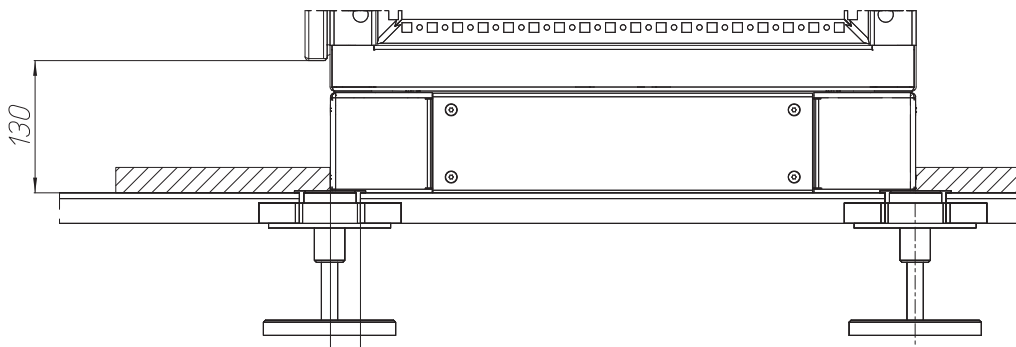
below. Please note that the cabinets need to be equipped with a base plinth (see drawing) if the thickness of the false floor panel is >20mm.



A = 375 mm
575 mm
775 mm

B = 425 mm
600 mm
800 mm
850 mm
1000 mm
1100 mm
1200 mm
1350 mm

False floor



False floor_Detail

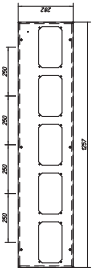
- min. surface standing on the framework bottom = 15 mm²
- when using false floor panels of a thickness >20 mm, cabinets must be equipped with a base plinth to make sure that the doors open without any problems

xEnergy Switchboards

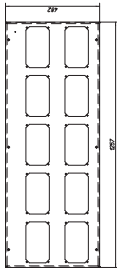
Dimensions

XSPTF Top/Bottom Cover

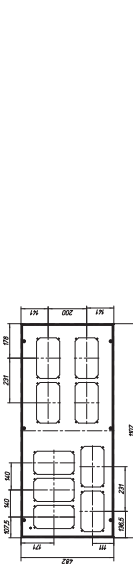
XSPTF.04
(Depth 400 mm)



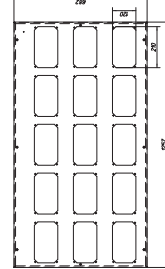
XSPTF.06
(Depth 600 mm)



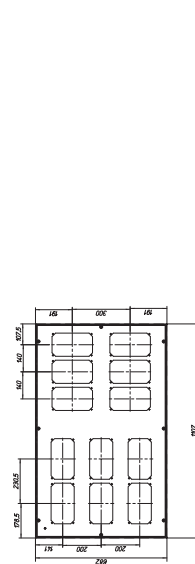
XSPTF.06-XF
(Depth 600 mm)



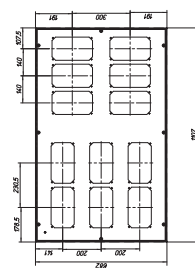
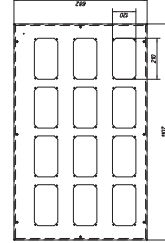
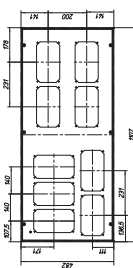
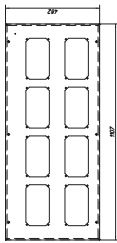
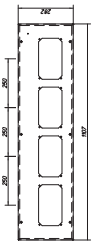
XSPTF.08
(Depth 800 mm)



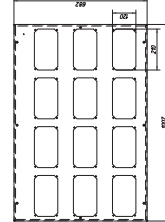
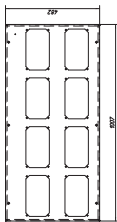
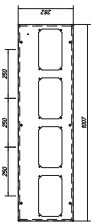
XSPTF.08-XF
(Depth 800 mm)



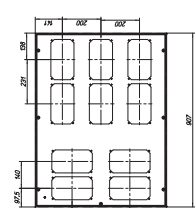
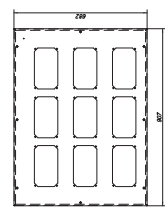
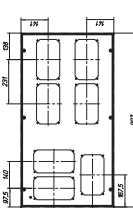
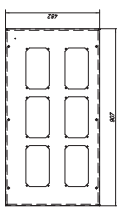
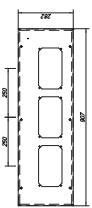
1350 mm



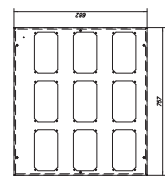
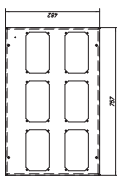
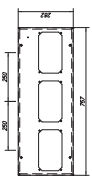
1200 mm



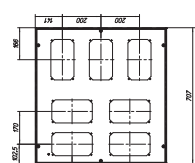
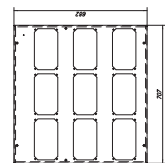
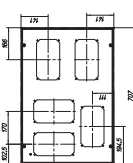
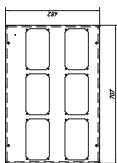
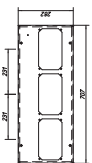
1100 mm



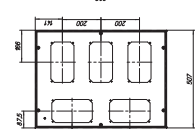
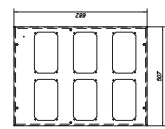
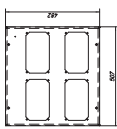
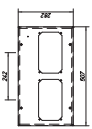
1000 mm



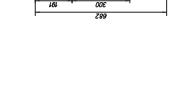
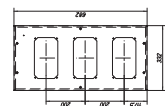
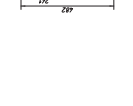
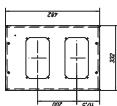
850 mm



800 mm



600 mm

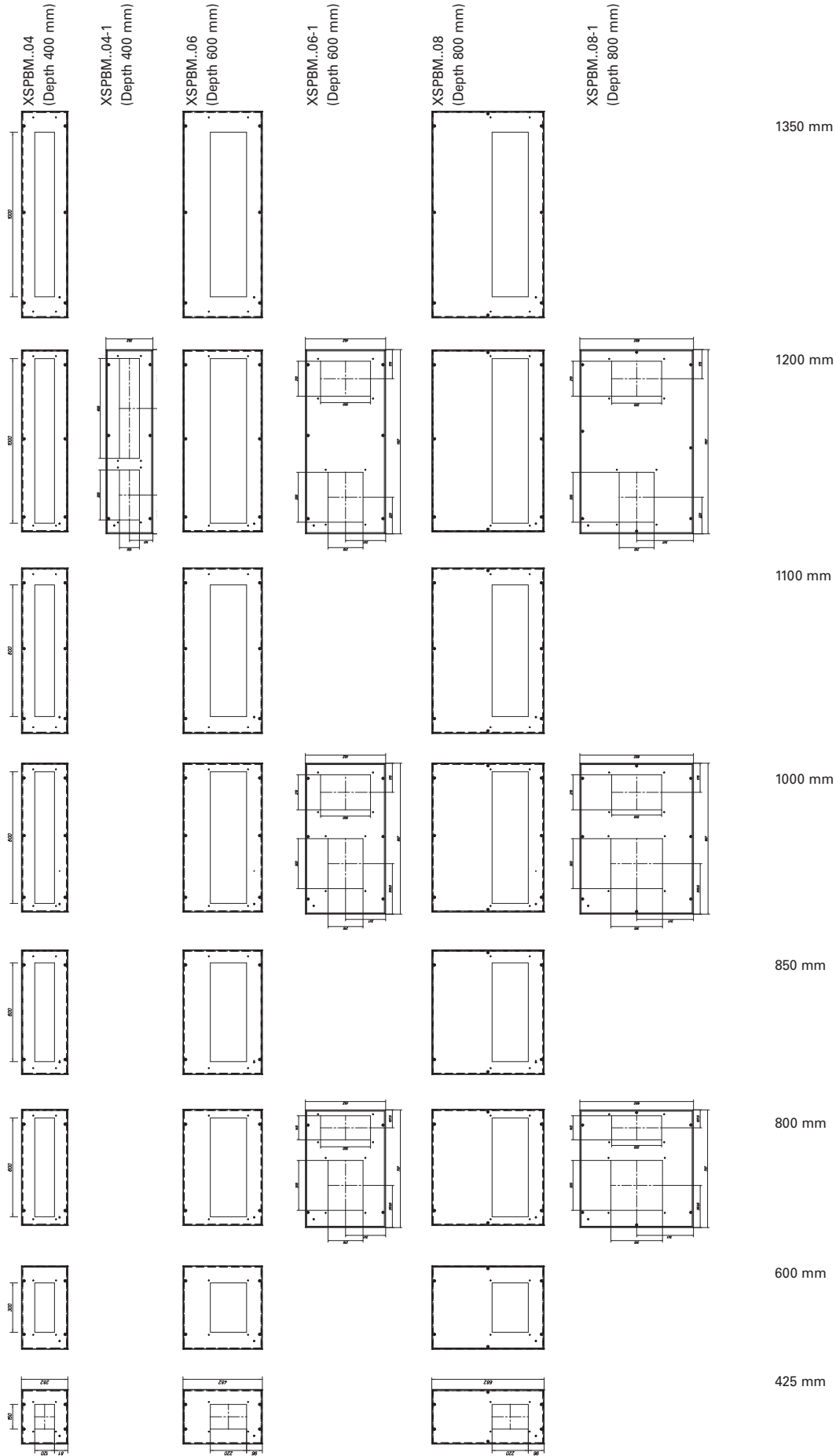


425 mm

xEnergy Switchboards

Dimensions

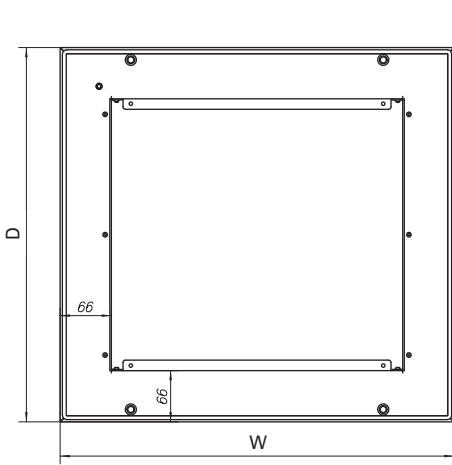
XVTL-MP/T/EF, XSPTF Top/Bottom Cover



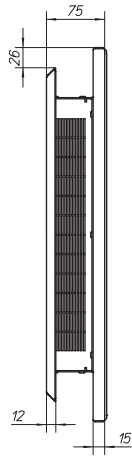
xEnergy Switchboards

Dimensions

XAD Top Cover



MAS_XAD



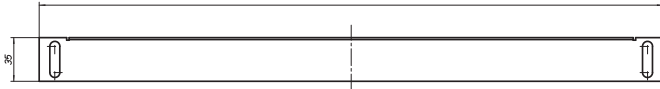
Depth	Width	W	D
400	400	332	282
400	600	507	282
400	800	707	282
400	850	757	282
400	1000	907	282
400	1100	1007	282
400	1200	1107	282
400	1350	1257	282
600	400	332	482
600	600	507	482
600	800	707	482
600	850	757	482
600	1000	907	482
600	1100	1007	482
600	1200	1107	482
600	1350	1257	482
800	400	332	682
800	600	507	682
800	800	707	682
800	850	757	582
800	1000	907	682
800	1100	1007	582
800	1200	1107	682
800	1350	1257	582

xEnergy Switchboards

Dimensions

XE Bottom panels

XSPBAC... = without foam



XE_Bodenplatte_1

Available in 2 versions:

Suitable for section width

XSPBAC..01

Type _____
 Section width _____
 Flange size _____

Section width can be selected from 425-1350 mm

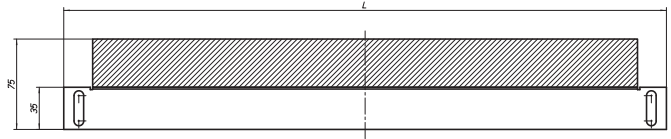
Suitable for section depth

XSPBAC01..

Type _____
 Flange size _____
 Section depth _____

Section depth can be selected from 400-800 mm

XSPBA... = with foam



XE_Bodenplatte_2

Available in 2 versions:

Suitable for section width

XSPBA..01

Type _____
 Section width _____
 Flange size _____

Section width can be selected from 425-1350 mm

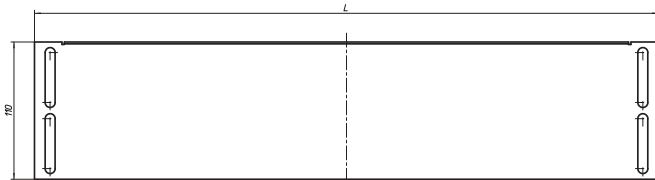
Suitable for section depth

XSPBA01..

Type _____
 Flange size _____
 Section depth _____

Section depth can be selected from 400-800 mm

XSPBAC... = without foam



XE_Bodenplatte_3

Available in 2 versions:

Suitable for section width

XSPBAC..02

Type _____
 Section width _____
 Flange size _____

Section width can be selected from 425-1350 mm

Suitable for section depth

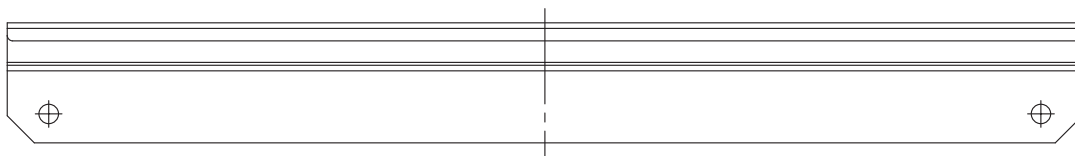
XSPBAC02..

Type _____
 Flange size _____
 Section depth _____

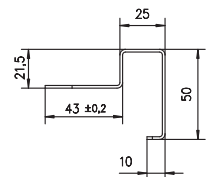
Section depth can be selected from 400-800 mm

(Width 700 is for closing switchgear areas of a PIFT section)

XSFDR Blue Design Strip



Mas_SVTL_GBS



xEnergy Switchboards

Dimensions




XE Bottom panels, divided insertion

For Circuit Breaker Fitting Kit		For PIFT Fitting Kit		Operation from outside	
Ins.	Module width 425 Connection area 200-175 	Ins.	Module width 600 Connection area 400-375 	Ins.	Module width 600 Connection area 600
	2 St. XSPBA0106		2 St. XSPBA0106 2 St. XSPBAC0206		2 St. XSPBA0106 4 St. XSPBAC0206
Ins.	Module width 425 Connection area 400-375 	Ins.	Module width 600 Connection area 400 	Ins.	Module width 600 Connection area 600
	2 St. XSPBA0106 2 St. XSPBAC0206		2 St. XSPBA0106 1 St. XSPBAC0206		2 St. XSPBA0106 3 St. XSPBAC0206
Ins.	Module width 425 Connection area 400-375 	Ins.	Module width 600 Connection area 400 	Ins.	Module width 600 Connection area 600
	2 St. XSPBA0106 1 St. XSPBAC0206		4 St. XSPBA0106 1 St. XSPBAC0206		4 St. XSPBA0106 4 St. XSPBAC0206
Ins.	Module width 600 Connection area 200-175 	Ins.	Module width 600 Connection area 400 	Ins.	Module width 600 Connection area 600
	2 St. XSPBA0108		4 St. XSPBA0108 1 St. XSPBAC0208		6 St. XSPBA0106
Ins.	Module width 425 Connection area 400-375 	Ins.	Module width 600 Connection area 400-375 	Ins.	Module width 600 Connection area 600
	2 St. XSPBA0108 1 St. XSPBAC0208		2 St. XSPBA0108 2 St. XSPBAC0208		2 St. XSPBA0108 2 St. XSPBAC0208
Ins.	Module width 425 Connection area 400-375 	Ins.	Module width 600 Connection area 400 	Ins.	Module width 600 Connection area 600
	2 St. XSPBA0108 1 St. XSPBAC0208		4 St. XSPBA0108 1 St. XSPBAC0208		4 St. XSPBA0108 3 St. XSPBAC0208
Ins.	Module width 600 Connection area 200-175 	Ins.	Module width 600 Connection area 400-375 	Ins.	Module width 600 Connection area 600
	2 St. XSPBA0108		6 St. XSPBA0108		6 St. XSPBA0108 1 St. XSPBAC0208 4 St. XSPBAC0702

xEnergy Switchboards

Dimensions

XE Bottom panels, insertion width

Einf. BxT = 425x400  4 St. XSPBA0401		Einf. BxT = 600x400  4 St. XSPBA0601		Einf. BxT = 800x400  4 St. XSPBA0801		Einf. BxT = 1000x400  4 St. XSPBA1001		Einf. BxT = 1200x600  6 St. XSPBA1201 1 St. XSPBAC1202	
Einf. BxT = 425x400  2 St. XSPBA0401 1 St. XSPBAC0402		Einf. BxT = 600x400  2 St. XSPBA0601 1 St. XSPBAC0602		Einf. BxT = 800x400  2 St. XSPBA0801 1 St. XSPBAC0802		Einf. BxT = 1000x400  2 St. XSPBA1001 1 St. XSPBAC1002		Einf. BxT = 1200x600  4 St. XSPBA1201 2 St. XSPBAC1202	
Einf. BxT = 425x400  3 St. XSPBA0401		Einf. BxT = 600x400  3 St. XSPBA0601		Einf. BxT = 800x400  3 St. XSPBA0801		Einf. BxT = 1000x400  3 St. XSPBA1001		Einf. BxT = 1200x600  2 St. XSPBA1201 3 St. XSPBAC1202	
Einf. BxT = 425x400  3 St. XSPBA0401		Einf. BxT = 600x400  3 St. XSPBA0601		Einf. BxT = 800x400  3 St. XSPBA0801		Einf. BxT = 1000x400  3 St. XSPBA1001		Einf. BxT = 1200x600  5 St. XSPBA1201	
Einf. BxT = 425x400  6 St. XSPBA0401 1 St. XSPBAC0402		Einf. BxT = 600x400  6 St. XSPBA0601 1 St. XSPBAC0602		Einf. BxT = 800x400  6 St. XSPBA0801 1 St. XSPBAC0802		Einf. BxT = 1000x400  6 St. XSPBA1001 1 St. XSPBAC1002		Einf. BxT = 1200x600  4 St. XSPBA1201 2 St. XSPBAC1202	
Einf. BxT = 425x400  4 St. XSPBA0401 2 St. XSPBAC0402		Einf. BxT = 600x400  4 St. XSPBA0601 2 St. XSPBAC0602		Einf. BxT = 800x400  4 St. XSPBA0801 2 St. XSPBAC0802		Einf. BxT = 1000x400  4 St. XSPBA1001 2 St. XSPBAC1002		Einf. BxT = 1200x600  2 St. XSPBA1201 3 St. XSPBAC1202	
Einf. BxT = 425x400  2 St. XSPBA0401 3 St. XSPBAC0402		Einf. BxT = 600x400  2 St. XSPBA0601 3 St. XSPBAC0602		Einf. BxT = 800x400  2 St. XSPBA0801 3 St. XSPBAC0802		Einf. BxT = 1000x400  2 St. XSPBA1001 3 St. XSPBAC1002		Einf. BxT = 1200x600  2 St. XSPBA1201 5 St. XSPBAC1202	
Einf. BxT = 425x400  5 St. XSPBA0401		Einf. BxT = 600x400  5 St. XSPBA0601		Einf. BxT = 800x400  5 St. XSPBA0801		Einf. BxT = 1000x400  5 St. XSPBA1001		Einf. BxT = 1200x600  7 St. XSPBA1201	
Einf. BxT = 425x400  6 St. XSPBA0401 3 St. XSPBAC0402		Einf. BxT = 600x400  6 St. XSPBA0601 3 St. XSPBAC0602		Einf. BxT = 800x400  6 St. XSPBA0801 3 St. XSPBAC0802		Einf. BxT = 1000x400  6 St. XSPBA1001 3 St. XSPBAC1002		Einf. BxT = 1200x600  4 St. XSPBA1201 4 St. XSPBAC1202	
Einf. BxT = 425x400  4 St. XSPBA0401 4 St. XSPBAC0402		Einf. BxT = 600x400  4 St. XSPBA0601 4 St. XSPBAC0602		Einf. BxT = 800x400  4 St. XSPBA0801 4 St. XSPBAC0802		Einf. BxT = 1000x400  4 St. XSPBA1001 4 St. XSPBAC1002		Einf. BxT = 1200x600  2 St. XSPBA1201 5 St. XSPBAC1202	
Einf. BxT = 425x400  2 St. XSPBA0401 5 St. XSPBAC0402		Einf. BxT = 600x400  2 St. XSPBA0601 5 St. XSPBAC0602		Einf. BxT = 800x400  2 St. XSPBA0801 5 St. XSPBAC0802		Einf. BxT = 1000x400  2 St. XSPBA1001 5 St. XSPBAC1002		Einf. BxT = 1200x600  7 St. XSPBA1201	
Einf. BxT = 425x400  7 St. XSPBA0401		Einf. BxT = 600x400  7 St. XSPBA0601		Einf. BxT = 800x400  7 St. XSPBA0801		Einf. BxT = 1000x400  7 St. XSPBA1001		Einf. BxT = 1200x600 7 St. XSPBA1201	

xEnergy Switchboards

Dimensions

XE Bottom panels, insertion depth

XE Bottom panels, insertion depth		XE Bottom panels, insertion depth		XE Bottom panels, insertion depth		XE Bottom panels, insertion depth		XE Bottom panels, insertion depth	
4/2	4 St. XSPBA0104 1 St. XSPBAC0204	4/2	4 St. XSPBA0104 2 St. XSPBAC0204	4/2	4 St. XSPBA0104 2 St. XSPBAC0204	4/2	4 St. XSPBA0104 2 St. XSPBAC0204	4/2	4 St. XSPBA0104 2 St. XSPBAC0204
2/1	2 St. XSPBA0104 2 St. XSPBAC0204	2/1	2 St. XSPBA0104 1 St. XSPBAC0104 3 St. XSPBAC0204	2/1	2 St. XSPBA0104 1 St. XSPBAC0104 3 St. XSPBAC0204	2/1	2 St. XSPBA0104 1 St. XSPBAC0104 3 St. XSPBAC0204	2/1	2 St. XSPBA0104 1 St. XSPBAC0104 3 St. XSPBAC0204
blind	3 St. XSPBAC0204	blind	5 St. XSPBAC0204	blind	5 St. XSPBAC0204	blind	5 St. XSPBAC0204	blind	5 St. XSPBAC0204
Inf. BxT = 425x400		Inf. BxT = 600x600		Inf. BxT = 600x600		Inf. BxT = 600x600		Inf. BxT = 600x600	
4/2	4 St. XSPBA0106 1 St. XSPBAC0206	4/2	4 St. XSPBA0106 2 St. XSPBAC0206	4/2	4 St. XSPBA0106 2 St. XSPBAC0206	4/2	4 St. XSPBA0106 2 St. XSPBAC0206	4/2	4 St. XSPBA0106 2 St. XSPBAC0206
2/1	2 St. XSPBA0106 2 St. XSPBAC0206	2/1	2 St. XSPBA0106 1 St. XSPBAC0106 3 St. XSPBAC0206	2/1	2 St. XSPBA0106 1 St. XSPBAC0106 3 St. XSPBAC0206	2/1	2 St. XSPBA0106 1 St. XSPBAC0106 3 St. XSPBAC0206	2/1	2 St. XSPBA0106 1 St. XSPBAC0106 3 St. XSPBAC0206
blind	3 St. XSPBAC0206	blind	5 St. XSPBAC0206	blind	5 St. XSPBAC0206	blind	5 St. XSPBAC0206	blind	5 St. XSPBAC0206
Inf. BxT = 425x800		Inf. BxT = 800x800		Inf. BxT = 800x800		Inf. BxT = 800x800		Inf. BxT = 800x800	
4/2	4 St. XSPBA0108 1 St. XSPBAC0108	4/2	4 St. XSPBA0108 2 St. XSPBAC0208	4/2	4 St. XSPBA0108 2 St. XSPBAC0208	4/2	4 St. XSPBA0108 2 St. XSPBAC0208	4/2	4 St. XSPBA0108 2 St. XSPBAC0208
2/1	2 St. XSPBA0108 2 St. XSPBAC0208	2/1	2 St. XSPBA0108 1 St. XSPBAC0108 3 St. XSPBAC0208	2/1	2 St. XSPBA0108 1 St. XSPBAC0108 3 St. XSPBAC0208	2/1	2 St. XSPBA0108 1 St. XSPBAC0108 3 St. XSPBAC0208	2/1	2 St. XSPBA0108 1 St. XSPBAC0108 3 St. XSPBAC0208
blind	3 St. XSPBAC0208	blind	5 St. XSPBAC0208	blind	5 St. XSPBAC0208	blind	5 St. XSPBAC0208	blind	5 St. XSPBAC0208
Inf. BxT = 1000x400		Inf. BxT = 1000x600		Inf. BxT = 1000x600		Inf. BxT = 1000x600		Inf. BxT = 1000x600	
4/2	4 St. XSPBA0104 6 St. XSPBAC0204	4/2	4 St. XSPBA0106 6 St. XSPBAC0206	4/2	4 St. XSPBA0106 6 St. XSPBAC0206	4/2	4 St. XSPBA0106 6 St. XSPBAC0206	4/2	4 St. XSPBA0106 6 St. XSPBAC0206
2/1	2 St. XSPBA0104 7 St. XSPBAC0204	2/1	2 St. XSPBA0106 7 St. XSPBAC0206	2/1	2 St. XSPBA0106 7 St. XSPBAC0206	2/1	2 St. XSPBA0106 7 St. XSPBAC0206	2/1	2 St. XSPBA0106 7 St. XSPBAC0206
blind	9 St. XSPBAC0204	blind	9 St. XSPBAC0206	blind	9 St. XSPBAC0206	blind	9 St. XSPBAC0206	blind	9 St. XSPBAC0206
Inf. BxT = 1000x800		Inf. BxT = 1200x600		Inf. BxT = 1200x600		Inf. BxT = 1200x600		Inf. BxT = 1200x800	
4/2	4 St. XSPBA0108 6 St. XSPBAC0208	4/2	4 St. XSPBA0106 8 St. XSPBAC0206	4/2	4 St. XSPBA0106 8 St. XSPBAC0206	4/2	4 St. XSPBA0106 8 St. XSPBAC0206	4/2	4 St. XSPBA0108 8 St. XSPBAC0208
2/1	2 St. XSPBA0108 7 St. XSPBAC0208	2/1	2 St. XSPBA0106 9 St. XSPBAC0206	2/1	2 St. XSPBA0106 9 St. XSPBAC0206	2/1	2 St. XSPBA0106 9 St. XSPBAC0206	2/1	2 St. XSPBA0108 9 St. XSPBAC0208
blind	9 St. XSPBAC0208	blind	11 St. XSPBAC0206	blind	11 St. XSPBAC0206	blind	11 St. XSPBAC0206	blind	11 St. XSPBAC0208

Main Busbar - Top

Configuration of the Frame	Page 538
XP Power Sections	Page 549
XP Power Sections Stacked ACB	Page 555
Outgoing Sections as Motor Control Centers in Withdrawable Technology	Page 567
XF Sections Outgoing Section in Form 2	Page 577
XF Sections Outgoing Sections - Fixed Technology - Form 4	Page 587
Box Solution Motor Control Center in Fixed Technology	Page 603

The ongoing development of xEnergy with "Main busbar - top-mounted" provides many technical advantages (for more details please refer to the Technical Section) and has the pleasant effect that most individual components of the existing product range are compatible. All individual components that can be used for both systems (main busbar at the top/rear) are marked in colours. However, not all individual components that have been developed for „Main busbar top-mounted“ are necessarily compatible with "Main busbar rear-mounted"!

Configuration of the Frame

xEnergy Switchboards

Individual parts of the frame / Empty section



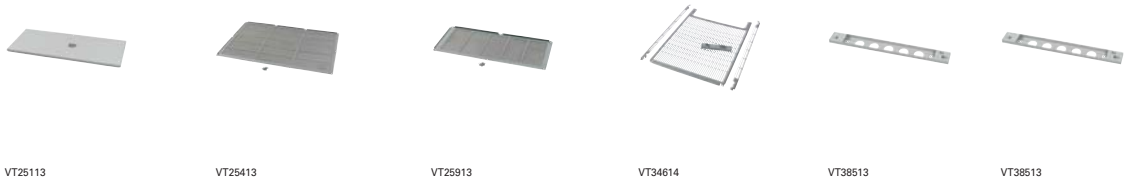
Section width mm	Frame - upper part (designed for busbar connection) Open Frame incl. screws and blue design strip Article No. per pack/unit Pack = 1 pc.	Frame - bottom part (upper part) standard frame incl. screws and blue design strip Article No. per pack/unit Pack = 1 pc.	Vertical profiles 4 corner profiles incl. screws and sealing material, frame height = 2000 mm Article No. per pack/unit Pack = 1 pc.	Rear panel IP55 with polyurethane 2-components foam sealing Article No. per pack/unit Pack = 1 pc.	Rear panel IP42 with polyurethane 2-components foam sealing, fine-meshed grid on exchangeable frame construction Article No. per pack/unit Pack = 1 pc.	Rear panel IP31 with polyurethane 2-components foam sealing Article No. per pack/unit Pack = 1 pc.
425	XTSZFBA-W425 172510	XTSZFBS-W425 172517	XTSZFH-H2000 172709	XSWC2004 284355 122346 *	XTSZRV4-W425 172524	XSWV2004 284360 122351 *
600	XTSZFBA-W600 172511	XTSZFBS-W600 172518	XTSZFH-H2000 172709	XSWC2006 284356 122347 *	XTSZRV4-W600 172525	XSWV2006 284361 122352 *
800	XTSZFBA-W800 172512	XTSZFBS-W800 172519	XTSZFH-H2000 172709	XSWC2008 284357 122353 *	XTSZRV4-W800 172526	XSWV2008 284362 122353 *
1000	XTSZFBA-W1000 172506	XTSZFBS-W1000 172513	XTSZFH-H2000 172709	XSWC2010 284358 122354 *	XTSZRV4-W1000 172520	XSWV2010 284363 122354 *
1100	XTSZFBA-W1100 172507	XTSZFBS-W1100 172514	XTSZFH-H2000 172709	XSWC2011 133000 133050 *	XTSZRV4-W1100 172521	XSWV2011 133002 133050 *
1200	XTSZFBA-W1200 172508	XTSZFBS-W1200 172515	XTSZFH-H2000 172709	XSWC2012 284359 122355 *	XTSZRV4-W1200 172522	XSWV2012 284364 122355 *
1350	XTSZFBA-W1350 172509	XTSZFBS-W1350 172516	XTSZFH-H2000 172709	XSWC20135 133001 133051 *	XTSZRV4-W1350 172523	XSWV201350 133003 133051 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Individual parts of the frame / Empty section



Section width mm	Top panel, closed for Open Frame version, IP55, with foam sealing, incl. screws Article No. per pack/unit Pack = 1 pc.	Top panel, ventilated version for Open Frame, with-out fine-meshed grid: IP31, with additional grid element: IP42, with foam sealing, incl. screws Article No. per pack/unit Pack = 1 pc.	Grid element for ventilated top p., version for Open Frame, IP42 Article No. per pack/unit Pack = 1 pc.	Partition busbar area / switch-gear area in general sections, IP55 Article No. per pack/unit Pack = 1 pc.	Wiring and control module for installation of diff. electrical components, H = 250mm, incl. screws Article No. per pack/unit Pack = 1 pc.	Cable duct for control wiring, in connection with wiring/control module/ XTPZBAVC-H250W... incl. screws and all fixing brackets Article No. per pack/unit Pack = 1 pc.
425	XTSZPTAC-W425 172712	XTSZPTAV-W425 172718	XTSZPTAPA-W425 172725	XTPZBMH1-W425 173046	XTPZBAVC-H250W425 172680	XTPZAEHD-W425 173102
600	XTSZPTAC-W600 172713	XTSZPTAV-W600 172719	XTSZPTAPA-W600 172726	XTPZBMH1-W600 173047	XTPZBAVC-H250W600 172681	XTPZAEHD-W600 173100
800	XTSZPTAC-W800 173093	XTSZPTAV-W800 172720	XTSZPTAPA-W800 172727	XTPZBMH1-W800 173048	XTPZBAVC-H250W800 172682	XTPZAEHD-W800 173101
1000	XTSZPTAC-W1000 173091	XTSZPTAV-W1000 172714	XTSZPTAPA-W1000 172721	XTPZBMH1-W1000 173042	XTPZBAVC-H250W1000 172683	XTPZAEHD-W1000 173096
1100	XTSZPTAC-W1100 172710	XTSZPTAV-W1100 172715	XTSZPTAPA-W1100 172722	XTPZBMH1-W1100 173043	XTPZBAVC-H250W1100 172684	XTPZAEHD-W1100 173097
1200	XTSZPTAC-W1200 173092	XTSZPTAV-W1200 172716	XTSZPTAPA-W1200 172723	XTPZBMH1-W1200 173044	XTPZBAVC-H250W1200 172685	XTPZAEHD-W1200 173098
1350	XTSZPTAC-W1350 172711	XTSZPTAV-W1350 172717	XTSZPTAPA-W1350 172724	XTPZBMH1-W1350 173045	XTPZBAVC-H250W1350 172686	XTPZAEHD-W1350 173099

xEnergy Switchboards

Individual parts of the frame / Empty section

Section width mm	Partition instead of a control module XTPZBAVC-H250W...	
	Article No. per pack/unit Pack = 1 pc.	
425	XTPZBAVP-H250W425 173110	
600	XTPZBAVP-H250W600 173111	
800	XTPZBAVP-H250W800 173041	
1000	XTPZBAVP-H250W1000 173106	
1100	XTPZBAVP-H250W1100 173107	
1200	XTPZBAVP-H250W1200 173108	
1350	XTPZBAVP-H250W1350 173109	

xEnergy Switchboards

Individual parts of the frame / Empty section



VT22113



VT27713



VT25213



VT24813



VT26913

Side panel IP55, with poly- urethane 2-compo- nents foam sealing incl. screws	Side panel corner s. IP55, with poly- urethane 2-compo- nents foam sealing incl. screws	Add-on top panel, closed, fills the gap between 2 sections IP 55, no cut-outs, foam sealing, incl. screws	Add-on top panel for Open Frame, fills the gap bet- ween 2 sections, without fine-meshed grid element: IP31, with additional grid element: IP42, foam sealing, incl. screws	Grid frame for add-on top (Open Frame), IP42, incl. screws	
Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	
XTSZSA 172527	XTSZSA2 173094	XTSZPTCC 172728	XTSZPTCV 172729	XTSZPTCPA 172730	

xEnergy Switchboards

Section width of doors to Switchgear Area (door heights 250-450mm)

For IP42 version with exchangeable grid frame; all doors with hinges, tail hooks and screws



VT56914



VT36413



VT55914



VT55714

Sect. width mm	Degree of protection	Door height 250mm Article No. per pack/unit	Door height 325mm Article No. per pack/unit	Door height 350mm left in version IP55 suitable for both sides Article No. per pack/unit	Door height 350mm right Article No. per pack/unit	Door height 450mm Article No. per pack/unit
425	IP31	-	-	XTSZDSQV3-H350W425 177158	-	-
	IP42	-	-	XTSZDSQV4L-H350W425 177163	XTSZDSQV4R-H350W425 177167	-
	IP55	XTSZDSQC-H250W425 173061	-	XTSZDSQC-H350W425 173064	-	XTSZDSQC-H450W425 173067
600	IP31	-	XTSZDSQV3-H325W600 172707	XTSZDSQV3-H350W600 177159	-	-
	IP42	-	-	XTSZDSQV4L-H350W600 177164	XTSZDSQV4R-H350W600 177168	-
	IP55	XTSZDSQC-H250W600 173062	XTSZDSQC-H325W600 172704	XTSZDSQC-H350W600 173065	-	XTSZDSQC-H450W600 173068
800	IP31	-	XTSZDSQV3-H325W800 172708	XTSZDSQV3-H350W800 177160	-	-
	IP42	-	-	XTSZDSQV4L-H350W800 177165	XTSZDSQV4R-H350W800 177169	-
	IP55	XTSZDSQC-H250W800 173063	XTSZDSQC-H325W800 172705	XTSZDSQC-H350W800 173066	-	XTSZDSQC-H450W800 173069
1000	IP31	-	XTSZDSQV3-H325W1000 172706	XTSZDSQV3-H350W1000 177161	-	-
	IP42	-	-	XTSZDSQV4L-H350W1000 177166	XTSZDSQV4R-H350W1000 177170	-
	IP55	-	XTSZDSQC-H325W1000 172703	XTSZDSQC-H350W1000 177162	-	-
1100	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1200	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1350	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-

xEnergy Switchboards

Section width of doors to Switchgear Area (door heights 550-1625mm)

For IP42 version with exchangeable grid frame; all doors with hinges, tail hooks and screws



VT57314



VT58614



VT58014

Sect. width mm	Degree of protection	Door height 550mm Article No. per pack/unit	Door height 700mm left-hinged in version IP55 suitable for both sides Article No. per pack/unit	Door height 700mm right-hinged Article No. per pack/unit	Door height 800mm Article No. per pack/unit	Door height 1625mm left-hinged in version IP55 suitable for both sides Article No. per pack/unit
425	IP31	-	XTSZDSQV3L-H700W425 173079	XTSZDSQV3R-H700W425 173082	-	-
	IP42	-	XTSZDSQV4L-H700W425 173085	XTSZDSQV4R-H700W425 173088	-	-
	IP55	XTSZDSQC-H550W425 173070	XTSZDSQC-H700W425 173073	-	XTSZDSQC-H800W425 173076	-
600	IP31	-	XTSZDSQV3L-H700W600 173080	XTSZDSQV3R-H700W600 173083	-	XTSZDSKV3L-H1625W592 174036
	IP42	-	XTSZDSQV4L-H700W600 173086	XTSZDSQV4R-H700W600 173089	-	XTSZDSKV4L-H1625W592 174038
	IP55	XTSZDSQC-H550W600 173071	XTSZDSQC-H700W600 173074	-	XTSZDSQC-H800W600 173077	XTSZDSKC-H1625W592 174035
800	IP31	-	XTSZDSQV3L-H700W800 173081	XTSZDSQV3R-H700W800 173084	-	-
	IP42	-	XTSZDSQV4L-H700W800 173087	XTSZDSQV4R-H700W800 173090	-	-
	IP55	XTSZDSQC-H550W800 173072	XTSZDSQC-H700W800 173075	-	XTSZDSQC-H800W800 173078	-
1000	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1100	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1200	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-
1350	IP31	-	-	-	-	-
	IP42	-	-	-	-	-
	IP55	-	-	-	-	-

xEnergy Switchboards

Section width of doors to Switchgear Area (door heights 1625-2000mm)

For IP42 version with exchangeable grid frame; all doors with hinges, tail hooks and screws



VT22613



VT10513

Sect. width mm	Degree of protection	Door height 1625mm right-hinged Article No. per pack/unit	Door height 2000mm left-hinged Article No. per pack/unit	Door height 2000mm right-hinged Article No. per pack/unit
425	IP31	-	-	-
	IP42	-	XTSZDSKV4L-H2000W425 172497	XTSZDSKV4R-H2000W425 172500
	IP55	-	-	-
600	IP31	XTSZDSKV3R-H1625W592 174037	-	-
	IP42	XTSZDSKV4R-H1625W592 174039	XTSZDSKV4L-H2000W600 172498	XTSZDSKV4R-H2000W600 172501
	IP55	-	-	-
800	IP31	-	-	-
	IP42	-	XTSZDSKV4L-H2000W800 172499	XTSZDSKV4R-H2000W800 172502
	IP55	-	-	-
1000	IP31	-	-	-
	IP42	-	XTSZDSKV4L-H2000W1000 172701	XTSZDSKV4R-H2000W1000 172702
	IP55	-	-	-
1100	IP31	-	-	-
	IP42	-	-	XTSZDSKV4S-H2000W1100 172503
	IP55	-	-	-
1200	IP31	-	-	-
	IP42	-	-	XTSZDSKV4S-H2000W1200 172504
	IP55	-	-	-
1350	IP31	-	-	-
	IP42	-	-	XTSZDSKV4S-H2000W1350 172505
	IP55	-	-	-

xEnergy Switchboards





Section width of covers

with bayonet lock and screws

Sect. width mm	Degree of pro- tection	Module height 250mm	Module height 350mm	Module height 550mm	
		Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
425	IP31	XTSZCSV3-H250W425 177142	XTSZCSV3-H350W425 177150	-	
	IP42	XTSZCSV4-H250W425 177146	XTSZCSV4-H350W425 177154	-	
	IP55	XTSZCSC-H250W425 173058	-	XTSZCSC-H550W425 173055	
600	IP31	XTSZCSV3-H250W600 177143	XTSZCSV3-H350W600 177151	-	
	IP42	XTSZCSV4-H250W600 177147	XTSZCSV4-H350W600 177155	-	
	IP55	XTSZCSC-H250W600 173059	-	XTSZCSC-H550W600 173056	
800	IP31	XTSZCSV3-H250W800 177144	XTSZCSV3-H350W800 177152	-	
	IP42	XTSZCSV4-H250W800 177148	XTSZCSV4-H350W800 177156	-	
	IP55	XTSZCSC-H250W800 173060	-	XTSZCSC-H550W800 173057	
1000	IP31	XTSZCSV3-H250W1000 177145	XTSZCSV3-H350W1000 177153	-	
	IP42	XTSZCSV4-H250W1000 177149	XTSZCSV4-H350W1000 177157	-	
	IP55	XTSZCSC-H250W1000 177141	-	XTSZCSC-H550W1000 174060	

xEnergy Switchboards

IP42 Spare / Exchange grids for doors

				
VT26713	VT26813	VT26613	VT26513	
2 Grid rows	3 Grid rows	4 Grid rows	5 Grid rows	
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
XTSZDPA2 172690	XTSZDPA3 172691	XTSZDPA4 172692	XTSZDPA5 172693	

425mm section width = 2 grid rows
 600mm section width = 3 grid rows
 800mm section width = 5 grid rows
 1000mm section width = 2x3 grid rows
 1100mm section width = 1x3 grid rows + 1x4 grid rows
 1200mm section width = 1x3 grid rows + 1x4 grid rows
 1350mm section width = 1x4 grid rows + 1x5 grid rows

IP42 Spare grids for rear panels

				
VT26113	VT26413	VT26313	VT26213	
2 Grid rows for 425mm section width	3 Grid rows 2x3 rows= 1000mm 3x3 rows = 1350mm section width	4 Grid rows for 600mm section width 2x4 rows = 1100mm and 1200mm section width	5 Grid rows for 800mm section width	
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
XTSZRPA2 172694	XTSZRPA3 172695	XTSZRPA4 172696	XTSZRPA5 172697	

xEnergy Switchboards

Main Bus Bar Supports

Main bus bar supports, completely assembled on a 2 mm support sheet. Can be used for 3 or 4 poles. Screws included. Cu 30/10 can be used. Left, center and right-side support available.



VT12713



VT12813

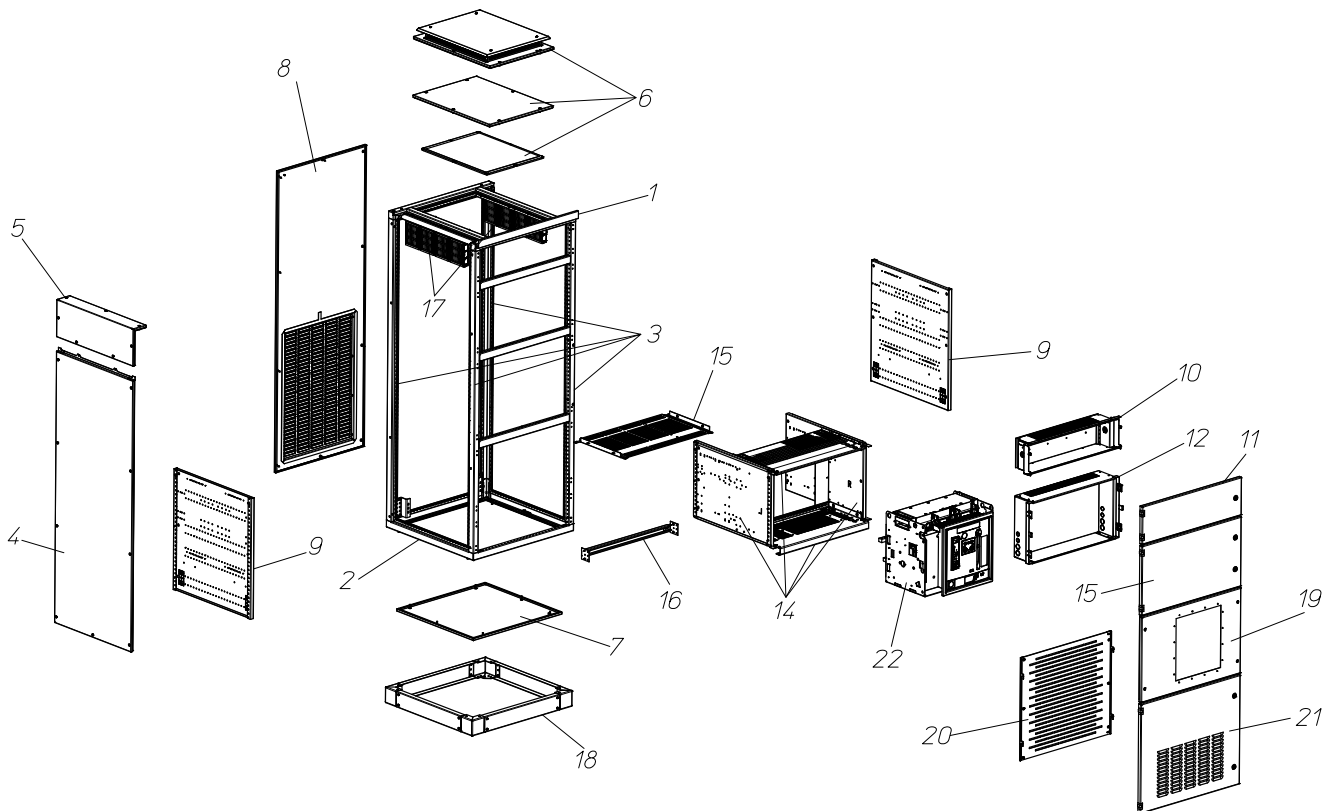


VT12913

Copper rows per phase	Main bus bar support 3/4 pole left-side support	Main bus bar support 3/4 pole center support	Main bus bar support 3/4 pole right-side support	
	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	Article No. per pack/unit Pack = 1 pc.	
1	XTBZBL4X30X10/4 172486	XTBZBM4X30X10/4 172488	XTBZBR4X30X10/4 172490	
2	XTBZBL8X30X10/4 172492	XTBZBM8X30X10/4 172494	XTBZBR8X30X10/4 172496	
3	XTBZBL12X30X10/4 172480	XTBZBM12X30X10/4 172482	XTBZBR12X30X10/4 172484	

XP Power Sections

XP_Explosion_single



- 1 Frame - top
- 2 Frame - bottom
- 3 Vertical profiles
- 4 Side panel
- 5 Corner element for side panel
- 6 Top panel
- 7 Bottom panel
- 8 Rear panel
- 9 Separation panel
- 10 Wiring/control module
- 11 Door to control module
- 12 Measuring module
- 13 Door to measuring module
- 14 Fitting kit
- 15 Partition horizontal
- 16 Cable strain relief rail
- 17 Main busbar support
- 18 Plinth

- 19 Front cover
- 20 Cover of connection area
- 21 Door to connection area
- 22 Circuit breaker

Features

- Widths: 600, 800, 1000mm
- Fixed or withdrawable
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Can be used as incoming, outgoing or coupler switch
- Switchgear can be realised with remote drive
- With snap-on cover or module door
- Widths of 800 and 1000mm come with a door to the cable connection area
- Dropper bar 1600-2000A
- Cable connection area at the back

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600mm
- The max. installation height available in the control module is 280mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

XP Sections



VT60214



VT59614



VT57514

	I_{cc} up to (400 V AC) kA	Section width mm	Poles	Installation type	Mechanical lock	Fitting kit for IZMX16 and IZMX40, fixed and withdr., incl. moun- ting plates and screws	Front cover incl. bayonet locks and screws	Module door left incl. hinges, tail hooks and screws, 3mm two-way key bit lock
						Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
Circuit breakers								
IZMX16	65	425	3	fixed	yes	XTMPIX16FM-H550W425 173340	XTMPIX16FC-H550W425 173336	XTMPIX16FD-H550W425 173338
		600	3+4+TP/N	fixed	yes	XTMPIX16FM-H550W600 173341	XTMPIX16FC-H550W600 173337	XTMPIX16FD-H550W600 173339
	425	425	3	drawer u.	yes	XTMPIX16WM-H550W425 173346	XTMPIX16WC-H550W425 173342	XTMPIX16WD-H550W425 173344
		600	3+4+TP/N	drawer u.	yes	XTMPIX16WM-H550W600 173347	XTMPIX16WC-H550W600 173343	XTMPIX16WD-H550W600 173345
IZMX40	80	600	3	fixed	yes	XTMPIX40FM-H550W600 173352	XTMPIX40FC-H550W600 173348	XTMPIX40FD-H550W600 173350
		800	3+4+TP/N	fixed	yes	XTMPIX40FM-H550W800 173353	XTMPIX40FC-H550W800 173349	XTMPIX40FD-H550W800 173351
	600	600	3	drawer u.	yes	XTMPIX40WM-H550W600 173358	XTMPIX40WC-H550W600 173354	XTMPIX40WD-H550W600 173356
		800	3+4+TP/N	drawer u.	yes	XTMPIX40WM-H550W800 173359	XTMPIX40WC-H550W800 173355	XTMPIX40WD-H550W800 173357

Note

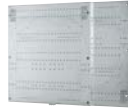
* Finish in special RAL colour



VT61114



VT60014



VT59814



wa_vt70513



VT55214



VT57214

Partition horizontal between incoming/outgoing contacts of the circuit breaker Article No. per pack/unit	Wiring and control module for XP sections for use in combination with XTPSSZ-H700 (side separation panel) Article No. per pack/unit	Separation p. consisting of 2 partition panels H=700mm Article No. per pack/unit	Additional electric shock protection at the rear (PVC) Article No. per pack/unit	Transparent cover of the cable connect. area H=700mm Article No. per pack/unit	Door to switchgear area, ventilated left side H=700mm IP31 Article No. per pack/unit	Door to switchgear area, ventilated right side H=700mm IP31 Article No. per pack/unit
XTPPIX16BH 173510	XTPPCAVC-H700W425 173049	XTPSSZ-H700 173052	XTPPVCH700W425 174013	XTPPVPC-W425 173360	XTSZSQV3L-H700W425 173079	XTSZSQV3R-H700W425 173082
XTPPIX16BH 173510	XTPPCAVC-H700W600 173050	XTPSSZ-H700 173052	XTPPVCH700W600 174014	XTPPVPC-W600 173361	XTSZSQV3L-H700W600 173080	XTSZSQV3R-H700W600 173083
XTPPIX16BH 173510	XTPPCAVC-H700W425 173049	XTPSSZ-H700 173052	XTPPVCH700W425 174013	XTPPVPC-W425 173360	XTSZSQV3L-H700W425 173079	XTSZSQV3R-H700W425 173082
XTPPIX16BH 173510	XTPPCAVC-H700W600 173050	XTPSSZ-H700 173052	XTPPVCH700W600 174014	XTPPVPC-W600 173361	XTSZSQV3L-H700W600 173080	XTSZSQV3R-H700W600 173083
XTPPIX40BH 173511	XTPPCAVC-H700W600 173050	XTPSSZ-H700 173052	XTPPVCH700W600 174014	XTPPVPC-W600 173361	XTSZSQV3L-H700W600 173080	XTSZSQV3R-H700W600 173083
XTPPIX40BH 173511	XTPPCAVC-H700W800 173051	XTPSSZ-H700 173052	XTPPVCH700W800 174015	XTPPVPC-W800 173362	XTSZSQV3L-H700W800 173081	XTSZSQV3R-H700W800 173084
XTPPIX40BH 173511	XTPPCAVC-H700W600 173050	XTPSSZ-H700 173052	XTPPVCH700W600 174014	XTPPVPC-W600 173361	XTSZSQV3L-H700W600 173080	XTSZSQV3R-H700W600 173083
XTPPIX40BH 173511	XTPPCAVC-H700W800 173051	XTPSSZ-H700 173052	XTPPVCH700W800 174015	XTPPVPC-W800 173362	XTSZSQV3L-H700W800 173081	XTSZSQV3R-H700W800 173084



VT57914



VT58014



VT58614



VT60714



VT55714



VT38513

Door to switchgear area, ventilated left side H=700mm IP42 Article No. per pack/unit	Door to switchgear area, ventilated right side H=700mm IP42 Article No. per pack/unit	Door to switchgear area, closed both sides H=700mm IP55 Article No. per pack/unit	Control module for XP sections H=450mm Article No. per pack/unit	Door to switchgear area, closed both sides H=450mm IP55 Article No. per pack/unit	Wiring and control module H=250mm Article No. per pack/unit
XTSZDSQV4L-H700W425 173085	XTSZDSQV4R-H700W425 173088	XTSZDSQC-H700W425 173073	XTPZBAVC-H450W425 173103	XTSZDSQC-H450W425 173067	XTPZBAVC-H250W425 172680
XTSZDSQV4L-H700W600 173086	XTSZDSQV4R-H700W600 173089	XTSZDSQC-H700W600 173074	XTPZBAVC-H450W600 173104	XTSZDSQC-H450W600 173068	XTPZBAVC-H250W600 172681
XTSZDSQV4L-H700W425 173085	XTSZDSQV4R-H700W425 173088	XTSZDSQC-H700W425 173073	XTPZBAVC-H450W425 173103	XTSZDSQC-H450W425 173067	XTPZBAVC-H250W425 172680
XTSZDSQV4L-H700W600 173086	XTSZDSQV4R-H700W600 173089	XTSZDSQC-H700W600 173074	XTPZBAVC-H450W600 173104	XTSZDSQC-H450W600 173068	XTPZBAVC-H250W600 172681
XTSZDSQV4L-H700W600 173086	XTSZDSQV4R-H700W600 173089	XTSZDSQC-H700W600 173074	XTPZBAVC-H450W600 173104	XTSZDSQC-H450W600 173068	XTPZBAVC-H250W600 172681
XTSZDSQV4L-H700W800 173087	XTSZDSQV4R-H700W800 173090	XTSZDSQC-H700W800 173075	XTPZBAVC-H450W800 173105	XTSZDSQC-H450W800 173069	XTPZBAVC-H250W800 172682
XTSZDSQV4L-H700W600 173086	XTSZDSQV4R-H700W600 173089	XTSZDSQC-H700W600 173074	XTPZBAVC-H450W600 173104	XTSZDSQC-H450W600 173068	XTPZBAVC-H250W600 172681
XTSZDSQV4L-H700W800 173087	XTSZDSQV4R-H700W800 173090	XTSZDSQC-H700W800 173075	XTPZBAVC-H450W800 173105	XTSZDSQC-H450W800 173069	XTPZBAVC-H250W800 172682



VT56914



VT38513



wa_vt15013



wa_vt58313

Door to switchgear area, closed both sides H=250mm IP55 Article No. per pack/unit	Snap-on cover in section width Article No. per pack/unit	Control and wiring duct in combination with control module (XTPZBAVC-H250W...) Article No. per pack/unit	Partition instead of a control module (XTPZBAVC-H250W...) Article No. per pack/unit	Cable strain relief rail Article No. per pack/unit	Fixing bracket for cable strain relief rail Article No. per pack/unit
XTSZDSQC-H250W425 173061	XTSZCSC-H250W425 173058	XTPZAEHD-W425 173102	XTPZBAVP-H250W425 173110	XAR04 283850	XNBW-R2 106740
XTSZDSQC-H250W600 173062	XTSZCSC-H250W600 173059	XTPZAEHD-W600 173100	XTPZBAVP-H250W600 173111	XAR06 283851	XNBW-R2 106740
XTSZDSQC-H250W425 173061	XTSZCSC-H250W425 173058	XTPZAEHD-W425 173102	XTPZBAVP-H250W425 173110	XAR04 283850	XNBW-R2 106740
XTSZDSQC-H250W600 173062	XTSZCSC-H250W600 173059	XTPZAEHD-W600 173100	XTPZBAVP-H250W600 173111	XAR06 283851	XNBW-R2 106740
XTSZDSQC-H250W600 173062	XTSZCSC-H250W600 173059	XTPZAEHD-W600 173100	XTPZBAVP-H250W600 173111	XAR06 283851	XNBW-R2 106740
XTSZDSQC-H250W800 173063	XTSZCSC-H250W800 173060	XTPZAEHD-W800 173101	XTPZBAVP-H250W800 173041	XAR08 283852	XNBW-R2 106740
XTSZDSQC-H250W600 173062	XTSZCSC-H250W600 173059	XTPZAEHD-W600 173100	XTPZBAVP-H250W600 173111	XAR06 283851	XNBW-R2 106740
XTSZDSQC-H250W800 173063	XTSZCSC-H250W800 173060	XTPZAEHD-W800 173101	XTPZBAVP-H250W800 173041	XAR08 283852	XNBW-R2 106740

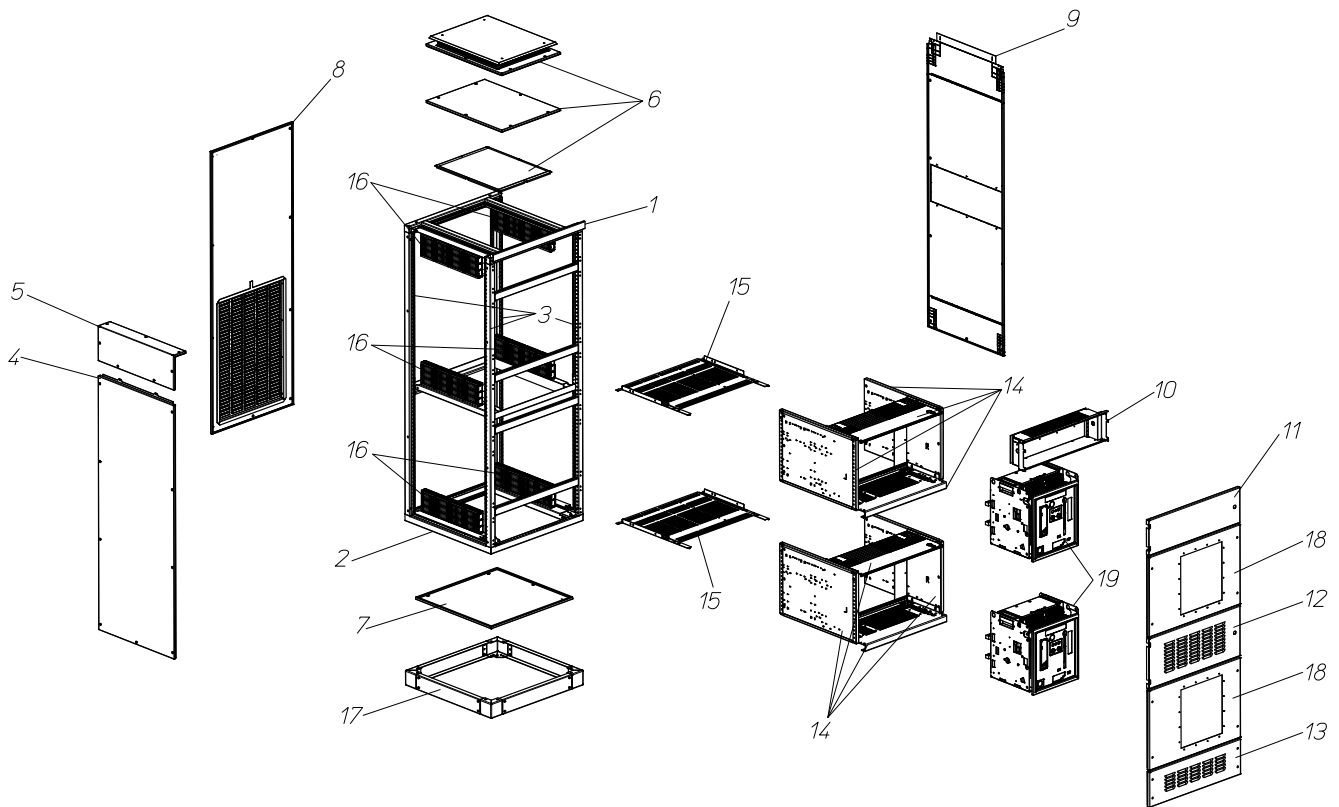
xEnergy Switchboards

Notes

A large grid area for taking notes, consisting of approximately 30 columns and 40 rows of small squares.

XP Power Sections Stacked ACB

XP_stacked_Explosion



- 1 Frame - top
- 2 Frame - bottom
- 3 Vertical profiles
- 4 Side panel
- 5 Corner element for side panel
- 6 Top panel
- 7 Bottom panel
- 8 Rear panel
- 9 Separation panel
- 10 Wiring/control module
- 11 Door to control module
- 12 Door to central main busbar
- 13 Cover of bottom main busbar
- 14 Fitting kit
- 15 Horizontal partitions
- 16 Supports for main bus bars
- 17 Plinth
- 18 Front cover for ACB

- 19 Circuit breakers

Features

- Widths: 600, 800, 1000mm
- Fixed or withdrawable
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Can be used as incoming, outgoing or coupler switch
- Switchgear can be realised with remote drive
- With snap-on cover or module door
- Widths of 800 and 1000mm come with a door to the cable connection area
- Cable connection area at the rear

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. installation height available in the control module is 250mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

XP Sections



VT45613



VT31514



VT31014

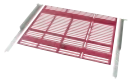


VT31514

	I_{cc} up to (400 V AC) kA	Section width mm	Poles	Installation type	Mechanical locking	Fitting kit for IZMX16 and IZMX40, fixed and withdrawable, incl. mounting plate, side mounting plates and screws Article No. per pack/unit	Front cover incl. bayonet locks and screws Article No. per pack/unit	Module door left side incl. hinges, tail hook and screws, 3mm two-way key-bit lock Article No. per pack/unit
Circuit breaker								
IZMX40	80	800	3	fest	ja	XTMPIX40FM-H550W800 173353	XTMPIX40FC-H550W800 173349	XTMPIX40FD-H550W800 173351
		1000	3+4	fest	ja	XTMPIX40FM-H550W1000 173993	XTMPIX40FC-H550W1000 173991	XTMPIX40FD-550W1000 173993
		800	3	ausfahrbar	ja	XTMPIX40WM-H550W800 173359	XTMPIX40WC-H550W800 173355	XTMPIX40FD-H550W800 173351
		1000	3+4	ausfahrbar	ja	XTMPIX40WM-H550W1000 173996	XTMPIX40WC-H550W1000 173994	XTMPIX40FD-550W1000 173993

Note

* Finish in special RAL colour



VT61014



VT35814



VT56614

Horizontal partition between incoming/outgoing contacts of the circuit breaker	Wiring and control module H=250mm	Control and wiring duct in combination with control module XTPZBAVC-H250W..	Door to switchgear area, closed for use on both sides H=250mm IP55	Snap-on cover in section width	Partition instead of control module XTPZBAVC-H250W..
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
XTPPIX40BH 173511	XTPZBAVC-H250W800 172682	XTPZAEHD-W800 173101	XTSZDSQC-H250W800 173063	XTSZCSC-H250W800 173060	XTPZBVP-H250W800 173041
XTPPIX40BH 173511	XTPZBAVC-H250W1000 172683	XTPZAEHD-W1000 173096	XTSZDSQC-H250W1000 in prep.	XTSZCSC-H250W1000 177141	XTPZBVP-H250W1000 173106
XTPPIX40BH 173511	XTPZBAVC-H250W800 172682	XTPZAEHD-W800 173101	XTSZDSQC-H250W800 173063	XTSZCSC-H250W800 173060	XTPZBVP-H250W800 173041
XTPPIX40BH 173511	XTPZBAVC-H250W1000 172683	XTPZAEHD-W1000 173096	XTSZDSQC-H250W1000 in prep.	XTSZCSC-H250W1000 177141	XTPZBVP-H250W1000 173106

Note

* Finish in special RAL colour



VT56514



wa_vt15013



wa_vt58313

Partition in front of main busbar at the center	Door to switchgear area, closed for use on both sides H=350mm IP55	Cable strain relief rail	Fixing bracket for cable strain relief rail	
Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
XTPZBAVP-H350W800 177136	XTSZDSQC-H350W800 173066	XAR08 283852	XNBW-R2 106740	
XTPZBAVP-H350W1000 177137	XTSZDSQC-H350W1000 177162	XAR10 283853	XNBW-R2 106740	
XTPZBAVP-H350W800 177136	XTSZDSQC-H350W800 173066	XAR08 283852	XNBW-R2 106740	
XTPZBAVP-H350W1000 177137	XTSZDSQC-H350W1000 177162	XAR10 283853	XNBW-R2 106740	

Note

* Finish in special RAL colour

Components IZMX..



xEnergy Switchboards

IZMX... Fitting kits

Consisting of 2 module side panels (left/right side, 1x support plate, partition behind the circuit breaker (switchgear area/main busbar area/cable connection area), partition above the circuit breaker (switchgear area/switchgear area), incl. all screws



VT60314

VT60414

VT60514

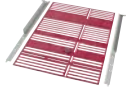
VT60214

Section width mm	Fitting kit for IZMX16 3-pole fixed	Fitting kit for IZMX16 3-pole withdrawable	Fitting kit for IZMX16 3+4+TP/N fixed	Fitting kit for IZMX16 3+4+TP/N withdrawable	Fitting kit for IZMX40 3-pole fixed	Fitting kit for IZMX40 3-pole withdrawable	Fitting kit for IZMX40 3+4+TP/N fixed	Fitting kit for IZMX40 3+4+TP/N withdrawable
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
425	XTMPIX16FM-H550W425 173340	XTMPIX16WM-H550W425 173346	-	-	-	-	-	-
600	-	-	XTMPIX16FM-H550W600 173341	XTMPIX16WM-H550W600 173347	XTMPIX40FM-H550W600 173352	XTMPIX40WM-H550W600 173358	-	-
800	-	-	-	-	-	-	XTMPIX40FM-H550W800 173353	XTMPIX40WM-H550W800 173359

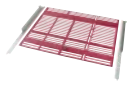
xEnergy Switchboards

Horizontal Partitions

Between incoming and outgoing contacts of the circuit breaker



VT61114



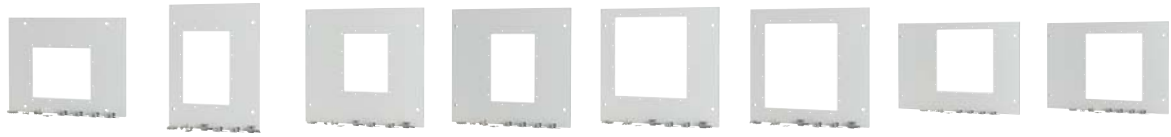
VT61014

Section width mm	IZMX16 Article No. per pack/unit	IZMX40 Article No. per pack/unit	
425	XTPPIX16BH 173510	-	
600	XTPPIX16BH 173510	XTPPIX40BH 173511	
800	XTPPIX16BH 173510	XTPPIX40BH 173511	

xEnergy Switchboards

Front Covers

Incl. fixing brackets, with bayonet locks and screws



VT59414

VT56214

VT56314

VT59614

VT56014

VT56114

VT59714

VT59514

Section width mm	Front cover for IZMX16 3-pole fixed	Front cover for IZMX16 3-pole withdrawable	Front cover for IZMX16 3+4+TP/N fixed	Front cover for IZMX16 3+4+TP/N withdrawable	Front cover for IZMX40 3-pole fixed	Front cover for IZMX40 3-pole withdrawable	Front cover for IZMX40 3+4+TP/N fixed	Front cover for IZMX40 3+4+TP/N withdrawable
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
425	XTMPIX16FC-H550W425 173336	XTMPIX16WC-H550W425 173342	-	-	-	-	-	-
600	-	-	XTMPIX16FC-H550W600 173337	XTMPIX16WC-H550W600 173343	XTMPIX40FC-H550W600 173348	XTMPIX40WC-H550W600 173354	-	-
800	-	-	-	-	-	-	XTMPIX40FC-H550W800 173349	XTMPIX40WC-H550W800 173355

xEnergy Switchboards

Module Doors

Incl. hinges (left-hinged) and screws



VT57614 VT58914 VT59214 VT57514 VT59514 VT59114 VT58114

Section width mm	Module door for IZMX16 3-pole fixed	Module door for IZMX16 3-pole withdrawable	Module door for IZMX16 3+4+TP/N fixed	Module door for IZMX16 3+4+TP/N withdrawable	Module door for IZMX40 3-pole fixed	Module door for IZMX40 3-pole withdrawable	Module door for IZMX40 3+4+TP/N fixed	Module door for IZMX40 3+4+TP/N withdrawable
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
425	XTMPIX16FD-H550W425 173338	XTMPIX16WD-H550W425 173344	-	-	-	-	-	-
600	-	-	XTMPIX16FD-H550W600 173339	XTMPIX16WD-H550W600 173345	XTMPIX40FD-H550W600 173350	XTMPIX40WD-H550W600 173356	-	-
800	-	-	-	-	-	-	XTMPIX40FD-H550W800 173351	XTMPIX40WD-H550W800 173357

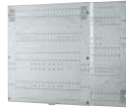
xEnergy Switchboards

Wiring and Control Modules, Separation Panels, Transparent Covers

At the bottom of the cabinet



VT60014



VT59814

Section width mm	Wiring and control module, use in combination with XTPSSZ-H700/173052, for installation of different electrical components, in the lower part of the XP section H = 700mm, incl. screws Article No. per pack/unit	Separation panel as separation panel and mounting side panel, consisting of 2 partition panels, H = 700mm, incl. screws Article No. per pack/unit	Transparent cover of the cable connection area, H = 700mm, incl. side fixing rails and screws Article No. per pack/unit	
425	XTPPCAVC-H700W425 173049	XTPSSZ-H700 173052	XTPPVPC-W425 173360	
600	XTPPCAVC-H700W600 173050	XTPSSZ-H700 173052	XTPPVPC-W600 173361	
800	XTPPCAVC-H700W800 173051	XTPSSZ-H700 173052	XTPPVPC-W800 173362	

xEnergy Switchboards

Control Modules, Control and Wiring Ducts, Partitions



VT60714



VT38513

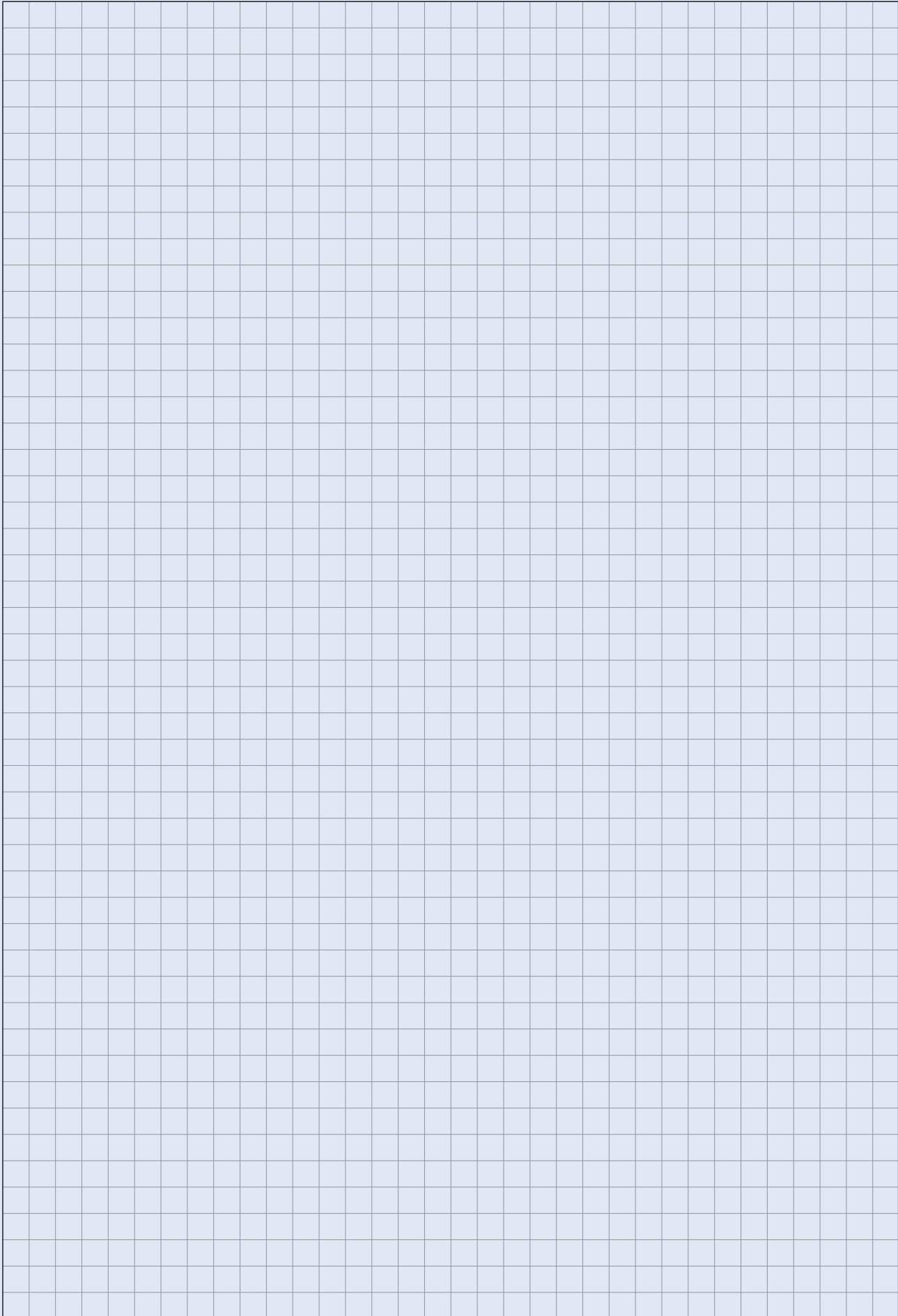


VT38513

Section width mm	Control module for XP sections for the installation of different electrical components, (circuit breakers, fuses, contactors, terminals, ...) pre-punched for openings, fixed or tiltable, H = 450mm, incl. screws Article No. per pack/unit	Wiring and control module for the installation of different electrical components, (circuit breakers, fuses, contactors, terminals, ...) pre-punched for openings, for cable duct XTPZBAEHD-W..., H = 250mm, incl. screws Article No. per pack/unit	Control and wiring duct in combination with control module XTPZBAVC-H250W..., completely closed, pre-punched bottom-side, incl. fixing brackets and screws Article No. per pack/unit	Partition can be used instead of control module XTPZBAVC-H250W..., electrical shock-protected cover of the main busbars Article No. per pack/unit
425	XTPZBAVC-H450W425 173103	XTPZBAVC-H250W425 172680	XTPZAEHD-W425 173102	XTPZBAVP-H250W425 173110
600	XTPZBAVC-H450W600 173104	XTPZBAVC-H250W600 172681	XTPZAEHD-W600 173100	XTPZBAVP-H250W600 173111
800	XTPZBAVC-H450W800 173105	XTPZBAVC-H250W800 172682	XTPZAEHD-W800 173101	XTPZBAVP-H250W800 173041

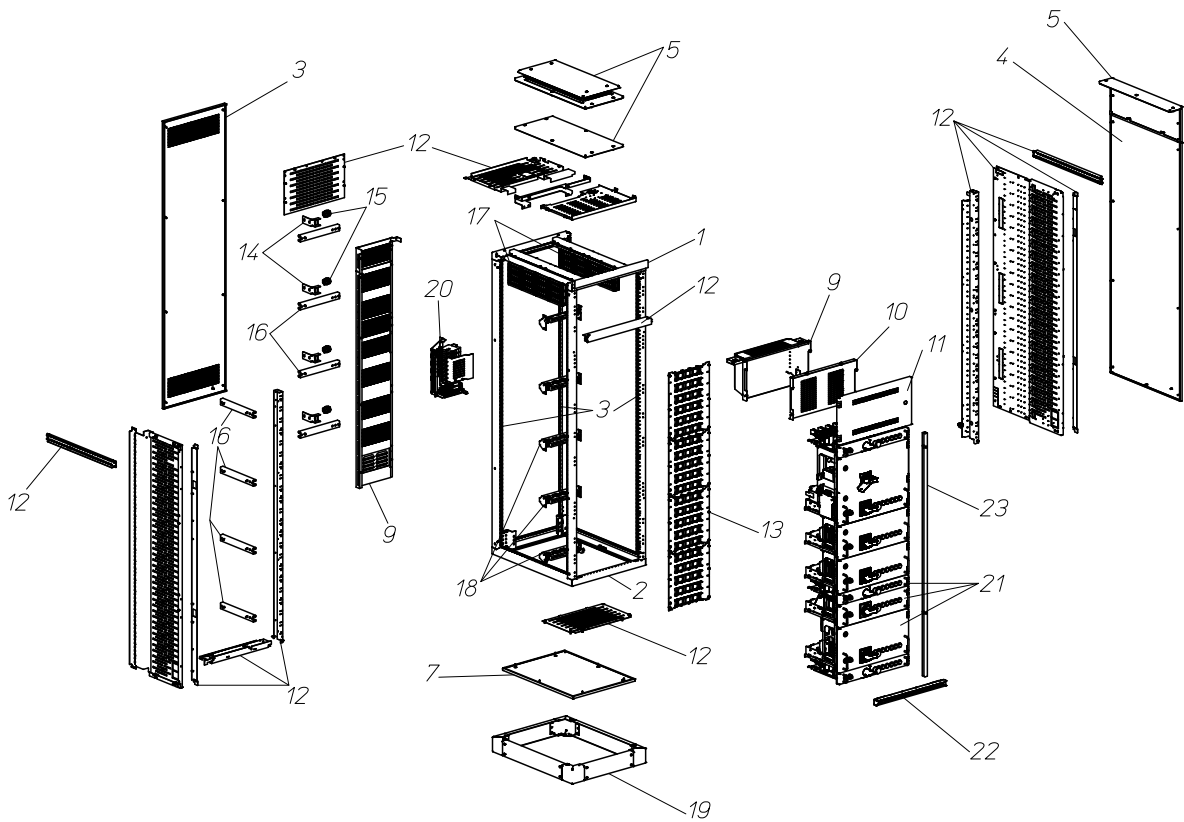
xEnergy Switchboards

Notes



Outgoing Sections as Motor Control Centers in Withdrawable Technology

XW_Explosion



- 1 Frame - top
- 2 Frame - bottom
- 3 Vertical profiles
- 4 Side panel
- 5 Corner element for side panel
- 6 Top panel
- 7 Bottom panel
- 8 Rear panel
- 9 Wiring/control module
- 10 Partition - main busbar
- 11 Door - control module
- 12 Fitting kit
- 13 Partition - dropper bar
- 14 Bracket - PE dropper bar
- 15 Insulators N conductor
- 16 Cable strain relief rails
- 17 Main busbar supports
- 18 Dropper bar supports
- 19 Plinth
- 20 Terminal - cable box
- 21 Drawer modules
- 22 Covers for empty sections

- 23 Front filler
- 24 Front filler vertical

Features

- Widths: 600, 800, 1000mm (widths 800 and 1000mm come with a door to the cable connection area)
- Module width: 600mm
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Drawer modules optionally with plastic or steel front plates
- Dropper bar 1600-2000A
- Cable connection area at the back
- Each module has a separate cable connection box
- Tilted position of the cable connection box for ideal connection conditions
- Can be used as standard drawer modules, from 75-450mm height
- Mounting kits of 600 and 750mm height are available for fixed modules

- Max. module height available = 1575mm / 21 modules

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600mm
- The max. installation height available in the control module is 280mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

Outgoing Section as Motor Control Center with connection at the rear



wa_vt03514



VT34713



VT35113



VT37913



VT37813



VT39413

Section width mm	Cable connection area at the side	XW Fitting kit left and right multi-mounting side panel, for width 600mm Article No. per pack/unit	XW Extension kits in combination with fitting kit XW XTMWS-W600, additional cable connection area at the side Article No. per pack/unit	Set of dropper bar supports for N in XW section, 4 insulators, H = 40mm, incl. screws Article No. per pack/unit	Set of dropper bar supports for PE in XW-section, 4 fixing brackets incl. screws Article No. per pack/unit	Wiring and control module for installation of different electrical components, for holding a cable duct Article No. per pack/unit
600	no	XTMWS-W600 172667	-	XTDWSVN1 172663	XTDWSPE1 172664	XTPWBAVC-H325W600 172677
800	yes (200mm)	TMWS-W600 172667	XTMWC-W800 172666	XTDWSVN1 172663	XTDWSPE1 172664	XTPWBAVC-H325W800 172678
1000	yes (400mm)	TMWS-W600 172667	XTMWC-W1000 172665	XTDWSVN1 172663	XTDWSPE1 172664	XTPWBAVC-H325W1000 172679

Note

* Finish in special RAL colour



VT38613



VT38213



VT38113



VT38513



VT38813

<p>Cover in front of main busbars instead of a control module, incl. screws</p> <p>Article No. per pack/unit</p>	<p>Door IP31 for control module left and right, H = 325mm incl. hinges, 3mm two-way key-bit lock and two-way key</p> <p>Article No. per pack/unit</p>	<p>Door IP55 for control module left and right, H = 325mm incl. hinges, 3mm two-way key-bit lock and two-way key</p> <p>Article No. per pack/unit</p>	<p>IP 31 doors to cable connection area, right-hinged, ventilated, with extension sets for additional cable connection area at the side</p> <p>Article No. per pack/unit</p>	<p>IP 55 doors to cable connection area, right-hinged, ventilated, with extension sets for additional cable connection area at the side</p> <p>Article No. per pack/unit</p>
<p>XTPWBAVP-H325W600 172687</p>	<p>XTSZDSQV3-H325W600 172707</p>	<p>XTSZDSQC-H325W600 172704</p>	-	-
<p>XTPWBAVP-H325W800 172688</p>	<p>XTSZDSQV3-H325W800 172708</p>	<p>XTSZDSQC-H325W800 172705</p>	<p>XTSZDCKV3R-H1625W220 172733</p>	<p>XTSZDCKC-H1625W220 172731</p>
<p>XTPWBAVP-H325W1000 172689</p>	<p>XTSZDSQV3-H325W1000 172706</p>	<p>XTSZDSQC-H325W1000 172703</p>	<p>XTSZDCKV3R-H1625W420 172734</p>	<p>XTSZDCKC-H1625W420 172732</p>



VT37213



VT37113



VT32114



VT22413

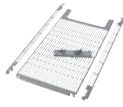
<p>Compensation cover IP31, ventilated, each fitting kit needs one compensation cover</p> <p>Article No. per pack/unit</p>	<p>Compensation cover IP55, closed, each fitting kit needs one compensation cover</p> <p>Article No. per pack/unit</p>	<p>Compensation cover vertical for XW sections 600mm wide (no cable connection area at the side) H = 1625mm, RAL 7035, each fitting kit needs one compensation cover</p> <p>Article No. per pack/unit</p>	<p>Separation panel section/section, separation panel as high as the section, each section needs one separation p., incl. screws</p> <p>Article No. per pack/unit</p>	
<p>XTSWV3 172700</p>	<p>XTSWFC 172699</p>	<p>XTSWEVDR-H1625 173054</p>	<p>XTPZSSZ1 172698</p>	
<p>XTSWV3 172700</p>	<p>XTSWFC 172699</p>	<p>-</p>	<p>XTPZSSZ1 172698</p>	
<p>XTSWV3 172700</p>	<p>XTSWFC 172699</p>	<p>-</p>	<p>XTPZSSZ1 172698</p>	

Components for Motor Control Center



xEnergy Switchboards

Fitting Kit, Expansion Sets, Wiring and Control Modules



VT34714



VT35113



VT39413

Section width mm	XW Fitting kit for width 600mm, left and right multi-mounting side panel, all fixing profiles, incl. screws and partitions Article No. per pack/unit	Section width mm	XW Expansion Set in combination with an XW XTMWS-W600 fitting kit, for XW sections with an additional cable connection a. at the side (200/400mm), consisting of cross-supports, mounting straps, vertical mounting, profile, partitions, incl. screws Article No. per pack/unit	Wiring and control module for installation of different electrical components, circuit breakers, fuses, contactors, terminals, ...), prepared for holding a cable duct, pre-punched areas for holes, control/auxiliary current compartment Article No. per pack/unit
600	XTMWS-W600 172667	600	-	XTPWBAVC-H325W600 172677
		800	XTMWC-W800 172666	XTPWBAVC-H325W800 172678
		1000	XTMWC-W1000 172665	XTPWBAVC-H325W1000 172679

xEnergy Switchboards

Covers, Doors



VT36613



VT36213



VT36113

Section width mm	Cover in front of main busbar, to cover the main busbar if no control module is used incl. screws	Door compatible with control module, IP31, left and right-hinged, door height is adjusted to control module (H=325mm), incl. hinges, 3mm two-way key-bit lock and 3mm two-way key	Door compatible with control module, IP55, closed, left and right-hinged, door height is adjusted to control module (H = 325mm), incl. hinges, 3mm two-way key-bit lock and two-way key	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
600	XTPWBAVP-H325W600 172687	XTSZDSQV3-H325W600 172707	XTSZDSQC-H325W600 172704	
800	XTPWBAVP-H325W800 172688	XTSZDSQV3-H325W800 172708	XTSZDSQC-H325W800 172705	
1000	XTPWBAVP-H325W1000 172689	XTSZDSQV3-H325W1000 172706	XTSZDSQC-H325W1000 172703	

xEnergy Switchboards

Doors to Cable Connection Area



VT35713



VT35613

Width mm	Doors to cable connection area, IP31, ventilated, with extension sets for additional cable connection area at the side, right-hinged, incl. 3mm two-way key-bit lock and two-way key, incl. screws Article No. per pack/unit	Doors to cable connection area, IP55, closed, with extension sets for additional cable connection area at the side, right-hinged, incl. 3mm two-way key-bit lock and 3mm two-way key, incl. screws Article No. per pack/unit	
220	XTSZDCKV3R-H1625W220 172733	XTSZDCKC-H1625W220 172731	
420	XTSZDCKV3R-H1625W420 172734	XTSZDCKC-H1625W420 172732	

Compensation Cover, Vertical Compensation Cover, Separation Panel Section / Section



VT37213



VT32914



VT22413

Compensation cover available in IP31 and IP55, ventilated each fitting kit (width 600,800,1000mm) requires one compensation cover Article No. per pack/unit	Compensation cover vertical for XW sections of 600mm width (no cable connection area at the side), each fitting kit requires one vertical compensation cover H = 1625mm, RAL 7035 Article No. per pack/unit	Separation panel section/section separation panel as high as the section, use one separation panel per section, incl. screws Article No. per pack/unit	
XTSWFV3 172700	XTSWEVDR-H1625 173054	XTPZSSZ1 172698	

xEnergy Switchboards

Set of Dropper Bar Supports



VT37013

Set of dropper bar supports, 35 kA, dropper bar supports come assembled, incl. fixing brackets, for 3 or 4-pole use, for Cu 2x40/10, incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTDWSV2X40X10/35
172657



VT36913

Set of dropper bar supports, 65 kA, dropper bar supports come assembled, incl. fixing brackets, for 3 or 4-pole use, for Cu 2x40/10, incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTDWSV2X40X10/65
172658



VT36813

Set of dropper bar supports, 80 kA, dropper bar supports come assembled, incl. fixing brackets, for 3 or 4-pole use, for Cu 2x40/10, incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTDWSV2X40X10/80
172659

Partition Set of Dropper Bar for XW Sections



VT35313

XW Dropper bar partition, galvanized, 35 kA, busbar currents up to 1000A, 3-part partition incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTPWDUG35
172673



VT35413

XW Dropper bar partition galvanized, 65 kA, busbar currents up to 1000A, 3-part partition, incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTPWDUG65
172674



VT34813

XW Dropper bar partition, stainless steel, 35 kA, busbar currents from 1000 A up to 1600 A max., 3-part partition, incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTPWDUS35
172675



VT35213

XW Dropper bar partition, stainless steel, 50/65/80 kA, busbar currents from 1000 A up to 1600 A max., 3-part partition, incl. screws

Article No.
per pack/unit
Pack = 1 Set

XTPWDUS80
172676

Cable Connection Boxes for XW Sections



VT37713

Cable connection box H = 75mm, modular design, inkl. all sheet-metal parts, cable entries and screws
Article No.
per pack/unit
Pack = 1 Set

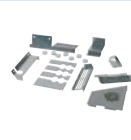
XTPWCUB-H75
172670



VT37613

Cable connection box H = 150mm, modular design, inkl. all sheet-metal parts, cable entries and screws
Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H150
172671



VT37513

Cable connection box H = 225mm, modular design, inkl. all sheet-metal parts, cable entries and screws
Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H225
172672



VT37413

Cable connection box H = 300mm, modular design, inkl. all sheet-metal parts, cable entries and screws
Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H300
172668



VT37313

Cable connection box H = 450mm, modular design, inkl. all sheet-metal parts, cable entries and screws
Article No.
per pack/unit
Pack = 1 Set

XTPWCUB-H450
172669

xEnergy Switchboards

Partition between Switchgear Area and Cable Box in Case of Empty Spaces

<p>Partition H = 75mm, for closing the gap at the rear of the switch- gear area in case of an empty-space cover Article No. per pack/unit Pack = 1 Set</p>	<p>Partition H = 150mm, for closing the gap at the rear of the switch- gear area in case of an empty-space cover Article No. per pack/unit Pack = 1 Set</p>	<p>Partition H = 225mm, for closing the gap at the rear of the switch- gear area in case of an empty-space cover Article No. per pack/unit Pack = 1 Set</p>	<p>Partition H = 300mm, for closing the gap at the rear of the switch- gear area in case of an empty-space cover Article No. per pack/unit Pack = 1 Set</p>	<p>Partition H = 450mm, for closing the gap at the rear of the switchgear area in case of an empty- space cover Article No. per pack/unit Pack = 1 Set</p>
<p>XTPWCUV-H75 173328</p>	<p>XTPWCUV-H150 173324</p>	<p>XTPWCUV-H225 173325</p>	<p>XTPWCUV-H300 173326</p>	<p>XTPWCUV-H450 173327</p>

Partitions between Cable Box and Switchgear Area/Drawer (Shelf Base)

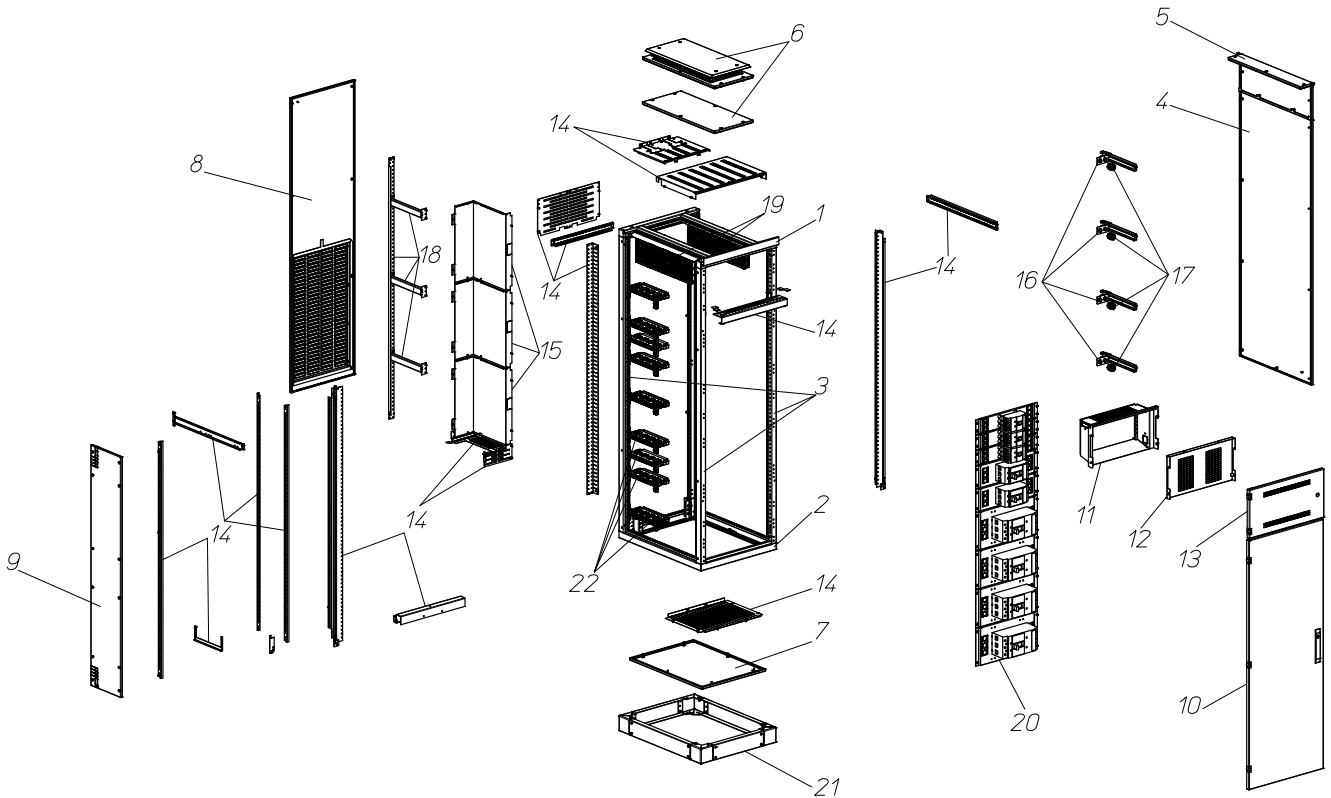
<p>Partition for main contacts, for closing the gaps between functional areas, cable connection and switchgear area, compulsory for Form 4, incl. screws Article No. per pack/unit Pack = 1 Set</p>	<p>Partition for auxiliary contacts, for closing the gaps between functional areas, cable connection and switchgear area, compulsory for Form 4, incl. screws Article No. per pack/unit Pack = 1 Set</p>
<p>XTPWCUA1 173329</p>	<p>XTPWCUA2 173330</p>

Partition for Control Terminals

<p>Partition for control terminals If not all of the plug-in positions are used for plugging control terminals, the remaining positions of the support will be covered by this partition</p> <p>Article No. per pack/unit Pack = 1 Set</p>
<p>XTPWAEZD 173331</p>

XF Sections Outgoing Section in Form 2

XF_Explosion_2b



- 1 Frame - top
- 2 Frame - bottom
- 3 Vertical profiles
- 4 Side panel
- 5 Corner element for side panel
- 6 Top panel
- 7 Bottom panel
- 8 Rear panel
- 9 Separation panel
- 10 Door to switchgear area
- 11 Wiring/control module
- 12 Partition main busbar
- 13 Door to control module
- 14 Fitting kit
- 15 Partition dropper bar
- 16 Bracket PE dropper bar
- 17 Insulators N conductor
- 18 Cable strain relief rails
- 19 Main busbar support

- 20 Modules
- 21 Plinth
- 22 Dropper bar support

Features

- Widths: 600, 800, 1000mm
- Module width: 600mm
- Form2
- 3, 4, 3P+N
- IP31, IP42, IP55
- Circuit breaker can be used with plug-in base
- Switchgear can be realised with remote drive
- One door across the entire switchgear area
- For widths of 800 and 1000mm one shared door across the switchgear and cable connection area
- Dropper bar 1600-2000A
- Cable connection area at the rear
- All modules sit on the same level
- Max. height available for installation/switchgear area = 1600mm

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600mm
- The max. installation height available in the control module is 280mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

XF Sections, Form 2



wa_vt03614



VT31014



VT37913



VT37813



VT39413

Section width mm	Cable connection area at the side	XF Fitting kit Form 2 Article No. per pack/unit	XF Extension sets in combination with XF XTMFS4-W600 fitting kit, additional cable connection area at the side Article No. per pack/unit	Set of dropper bar supports for N in XF section, 4 insulators, H = 40mm, incl. screws Article No. per pack/unit	Set of dropper bar supports for PE in XF section, 4 fixing brackets, incl. screws Article No. per pack/unit	Wiring and control module for the installation of different electrical components, for holding a cable duct Article No. per pack/unit
600	no	XTMFS2 174001	-	XTDWSVN1 172663	XTDWSVPE1 172664	XTPWBAVC-H325W600 172677
800	yes	XTMFS2 174001	XTMFC4-W800 173999	XTDWSVN1 172663	XTDWSVPE1 172664	XTPWBAVC-H325W800 172678
1000	yes	XTMFS2 174001	XTMFC4-W1000 173998	XTDWSVN1 172663	XTDWSVPE1 172664	XTPWBAVC-H325W1000 172679



VT36613



VT36313



VT36113

Cover in front of main busbars instead of a control module incl. screws Article No. per pack/unit	Dropper bar support Article No. per pack/unit	Partition dropper bars Article No. per pack/unit	Set of cable strain relief rails Article No. per pack/unit	Door IP31 for control module, left and right, ventilated, H = 325mm incl. hinges, 3mm two-way key-bit lock and two-way key Article No. per pack/unit	Door IP55 for control module left and right, closed H = 325mm incl. hinges, 3mm two-way key-bit lock and two-way key Article No. per pack/unit
XTPWBAVP-H325W600 172687	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTSZDSQV3-H325W600 172707	XTPWBAVP-H325W600 172687
XTPWBAVP-H325W800 172688	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTSZDSQV3-H325W800 172708	XTPWBAVP-H325W800 172688
XTPWBAVP-H325W1000 172689	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTSZDSQV3-H325W1000 172706	XTPWBAVP-H325W1000 172689

Dropper bar supports

Cu-cross-section (mm)	Bar support at top and bottom level incl. fixing bracket and screws Article No. per pack/unit Pack = 1 Set	Bar support at medium level incl. fixing bracket and screws Article No. per pack/unit Pack = 1 unit
2x40/10	XTDFSTB2X40X10/80 174069	XTDFBM2X40X10/80 174073
2x60/10	XTDFSTB2X60X10/80 174071	XTDFBM2X60X10/80 174075

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).



VT22413

Door to switchgear area, IP31, left, ventilated, 3mm two-way key-bit lock and two-way key, incl. screws Article No. per pack/unit	Door to switchgear area, IP31, right, ventilated, 3mm two-way key-bit lock and two-way key, incl. screws Article No. per pack/unit	Door to switchgear IP42, left, ventilated, 3mm two-way key-bit lock and two-way key, incl. screws Article No. per pack/unit	Door to switchgear area, IP42, right, ventilated, 3mm two-way key-bit lock and two-way key, incl. screws Article No. per pack/unit	Door to switchgear area, IP55, right, closed, 3mm two-way key-bit lock and two-way key, incl. screws Article No. per pack/unit	Separation panel section/section incl. screws Article No. per pack/unit
XTSZDSKV3L-H1625W592 174036	XTSZDSKV3R-H1625W592 174037	XTSZDSKV4L-H1625W592 174038	XTSZDSKV4R-H1625W592 174039	XTSZDSKC-H1625W592 174035	XTPZSSZ1 172698
-	-	-	-	-	XTPZSSZ1 172698
-	-	-	-	-	XTPZSSZ1 172698

Components XF Form 2



xEnergy Switchboards

Dropper bar supports		
Cu-cross-section mm	Bar support at top and bottom level incl. fixing bracket and screws Article No. per pack/unit Pack = 1 Set	Bar support at medium level incl. fixing bracket and screws Article No. per pack/unit Pack = 1 unit
2x40/10	XTDFSTB2X40X10/80 174069	XTDFBM2X40X10/80 174073
2x60/10	XTDFSTB2X60X10/80 174071	XTDFBM2X60X10/80 174075

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

xEnergy Switchboards

General Accessories: Mounting Plates - undrilled

Incl. fixing material



wa_vt33513

Width mm	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm	H = 500 mm
	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack= 1 Set	Article No. per pack/unit Pack=1 Set
600	XME0206M 283925	XME0406M 283933	XME0606M 284728	XME0806M 283945	XME1006M 144586	XME1206M 285686	XME1406M 171724	XME1606M 283951	XME2006M 171725

General Accessories: Mounting Plates - undrilled (continued)

Incl. fixing material



wa_vt33513

Width mm	H = 600 mm	H = 800 mm	H = 950 mm	H = 1000 mm	H = 1200 mm	
	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 Set	
600	XME2406M 285687	XME3206M 126010	XME3806M 171660	XME4006M 171726	XME4806M 171727	

xEnergy Switchboards

Accessories for Outgoing Section: Mounting Plates for PKZ



wa_vt68313

wa_vt68113

Width mm	horizontal 3-pole H = 50 mm	horizontal 3-pole H = 100 mm	
	Article No. per pack/unit	Article No. per pack/unit	
600	XMP030206M 284090	XMP430406M 284098	

Accessories for Outgoing Section: Mounting Plates for NZM1



wa_vt68013

wa_vt68113

Width mm	UK 1xNZM1 horiz. 4-pole H = 150 mm fixed	1xNZM1 horizontal 3-pole H = 100 mm fixed	1xNZM1 horizontal 4-pole H = 150 mm fixed	1xNZM1 horizontal 3-pole H = 150 mm plug-in technology	2xNZM1 vertical 3-pole H = 300 mm fixed	3xNZM1 vertical 3-pole H = 300 mm fixed	2xNZM1 vertical 4-pole H = 300 mm fixed	3xNZM1 vertical 4-pole H = 300 mm fixed	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
600	XMN140606M-UK 110255	XMN130406M 283998	XMN140606M 284006	XMN130606MP 121796	-	XMN131206MV 284002	-	XMN141206MV 284010	

xEnergy Switchboards

Accessories for Outgoing Section: Mounting Plates for NZM2



wa_vt54913

Width mm	UK 1xNZM2 horizontal 4-pole H = 200 mm fixed	1xNZM2 horizontal 3-pole H = 150 mm fixed	1xNZM2 horizontal 3-pole H = 150 mm plug-in technology	1xNZM2 horizontal 3-pole H = 150 mm with motor lift (sticks 15 mm out of the front p.)	1xNZM2 horizontal 4-pole H = 200 mm fixed	1xNZM2 horizontal 4-pole H = 200 mm plug-in tech- nology fixed	1xNZM2 horizontal 4-pole H = 200 mm cover for RCD module	2xNZM2 vertical 3-pole H = 400 mm fixed
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
600	XMN240606M-UK 110256	XMN230606M 284014	XMN230606MP 284724	XMN230606M 284014	XMN240806M 284027	XMN240806MP 284726	XMN240806MF 134485	-

xEnergy Switchboards

Accessories for Outgoing Section: Mounting Plates for NZM3



wa_v172913

Width mm	UK 1xNZM3 horizontal 4-pole H = 250 mm fixed	1xNZM3 horizontal 3-pole H = 200 mm fixed	1xNZM3 horizontal 3-pole H = 250 mm fixed	1xNZM3 horizontal 4-pole H = 250 mm fixed	1xNZM3 horizontal 4-pole H = 300 mm fixed	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
600	XMN340606M-UK 110257	XMN330806M 284038	XMN331006M 284041	XMN341006M 284054	XMN341206M 284057	

Accessories for Outgoing Section: Mounting Plates for NZM3 (continued)

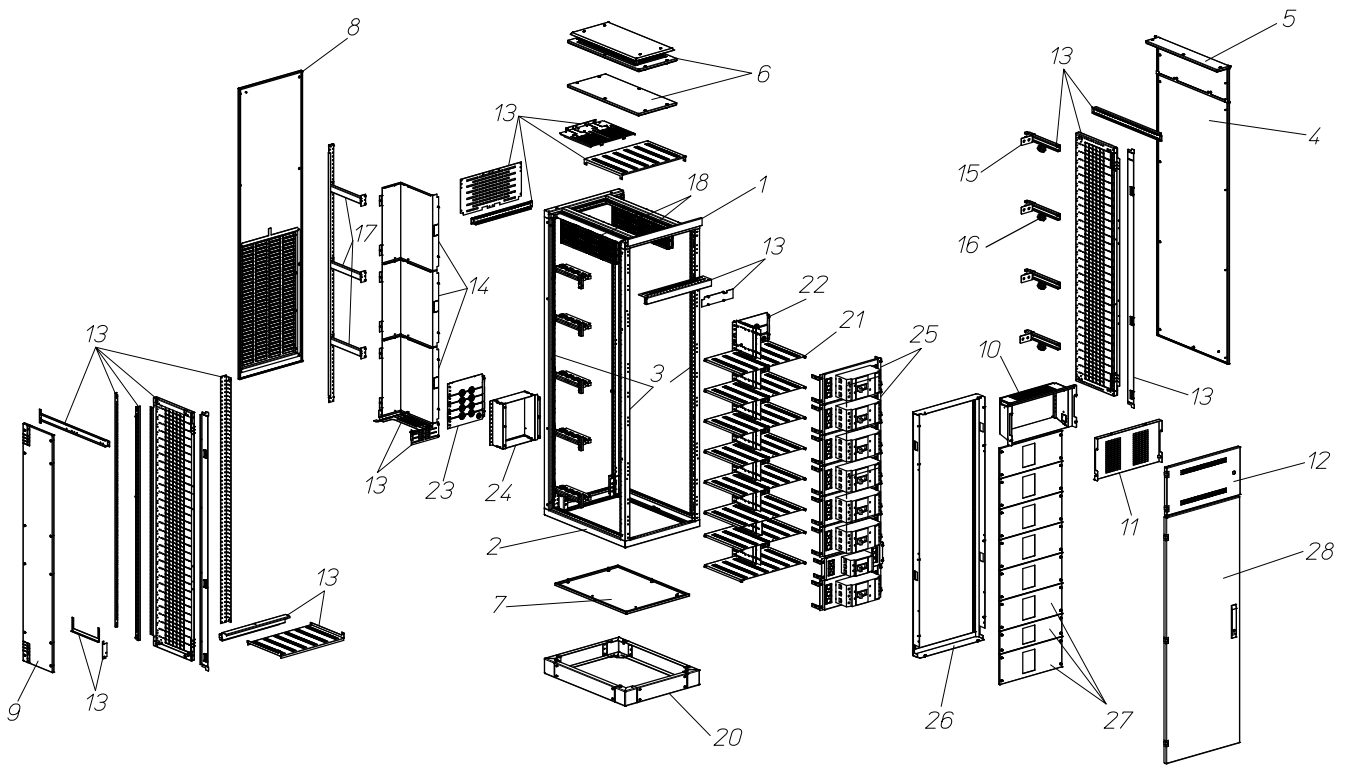


wa_v172913

Width mm	1xNZM3, horizontal 3-pole, H = 200 mm 4-pole with motor lift, motor lift sticks 55 mm out of the front panel, tilting is not possible, fixed Article No. per pack/unit	1xNZM3, horizontal 3-pole, H = 250 mm 4-pole with motor lift, motor lift sticks 55 mm out of the front panel, tilting is not possible, fixed Article No. per pack/unit	1xNZM3 horizontal 3-pole H = 250 mm plug-in technology	1xNZM3 4-pole H = 300 mm plug-in technology	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
600	XMN330806M 284038	XMN341006M 284054	XMN331006MP 172199	XMN341206MP 172201	

XF Sections Outgoing Sections - Fixed Technology - Form 4

XF_Explosion_4b



- 1 Frame - top
- 2 Frame - bottom
- 3 Vertical profiles
- 4 Side panel
- 5 Corner element for side panel
- 6 Top panel
- 7 Bottom panel
- 8 Rear panel
- 9 Separation panel
- 10 Wiring/control module
- 11 Partition main busbar
- 12 Door - control module
- 13 Fitting kit
- 14 Partition dropper bar
- 15 Bracket PE dropper bar
- 16 Insulators N conductor
- 17 Cable strain relief rail
- 18 Main busbar support
- 19 Dropper bar supports
- 20 Plinth
- 21 Separation panel module/module
- 22 Separation panel busbar/cable box

- 23 Cable entry - cable box
- 24 Extension/stacking frame cable box
- 25 Modules
- 26 Cover frame
- 27 Front panels
- 28 Door to switchgear area

Features

- Widths: 600, 800, 1000mm
- Module width: 600mm
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Circuit breaker can be used with plug-in base
- Switchgear can be realised with remote drive
- Each module has its own front panel
- Widths 800 and 1000mm come with a door to the cable connection area
- Dropper bar 1600-2000A
- Cable connection area at the rear
- Each module has its own cable connect. box
- Cable connection boxes can be extended with addi-

tional frames

- Max. height available for installation/switchgear area = 1550mm

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600mm
- The max. installation height available in the control module is 280mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

XF Sections, Form 4



wa_vt03714



VT37913



VT37813



VT39613

Section width mm	Cable connect. area at the side	XF Fitting kit Form 4 for width 600mm Article No. per pack/unit	XF Extension sets in combination with XF XTMFS4-W600 fitting kit additional cable connection area at the side Article No. per pack/unit	Cover frame Article No. per pack/unit	Set of dropper bar supports for N in XF section, 4 insulators, H = 40mm, incl. screws Article No. per pack/unit	Set of dropper bar supports for PE in XF section, 4 fixing brackets, incl. screws Article No. per pack/unit	Wiring and control module for the installation of different electrical components, for holding a cable duct Article No. per pack/unit
600	no	XTMFS4-W600 174000	-	XTMFF-MW600 173997	XTDWSVN1 172663	XTDWSVPE1 174076	XTPWBAVC-H325W600 172677
800	yes	XTMFS4-W600 174000	XTMFC4-800 173999	XTMFF-MW600 173997	XTDWSVN1 172663	XTDWSVPE1 174076	XTPWBAVC-H325W800 172678
1000	yes	XTMFS4-W600 174000	XTMFC4-W1000 173998	XTMFF-MW600 173997	XTDWSVN1 172663	XTDWSVPE1 174076	XTPWBAVC-H325W1000 172679

Note

* Finish in special RAL colour



VT36613



VT36313



VT36113

Cover in front of main busbars instead of a control module incl. screws Article No. per pack/unit	Dropper bar support Article No. per pack/	Partition dropper bars Article No. per pack/	Set of cable strain relief rails Article No. per pack/	Partition switchgear area / switchgear area Article No. per pack/unit	Partition dropper bar / cable connect. area Article No. per pack/unit	Door IP31 for control module, left and right, ventilated, H = 325mm incl. hinges, 3mm two-way key-bit lock and two-way key Article No. per pack/unit	Door IP55 for control module, left and right, closed H = 325mm incl. hinges, 3mm two-way key-bit lock and two-way key Article No. per pack/unit
XTPWBAVP-H325W600 172687	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTPFUUH1-MW600 174016	see table below	XTSZDSQV3-H325W600 172707	XTPWBAVP-H325W600 172687
XTPWBAVP-H325W600 172688	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTPFUUH1-MW600 174016	see table below	XTSZDSQV3-H325W800 172708	XTPWBAVP-H325W800 172688
XTPWBAVP-H325W600 172689	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTPFUUH1-MW600 174016	see table below	XTSZDSQV3-H325W1000 172706	XTPWBAVP-H325W1000 172689



VT22413

Door to cable con. area, IP31, left, vent., 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Door to cable con. a., IP31, right, ventil., 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Door to cable con. a. IP42, left, ventilated, 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Door to cable con. a. IP42, right, ventilat., 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Door to cable con. a. IP55, right, closed, 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Separation panel section/section incl. screws Article No. per pack/unit
XTSZDSKV3L-H1625W592 174036	XTSZDSKV3R-H1625W592 174037	XTSZDSKV4L-H1625W592 174038	XTSZDSKV4R-H1625W592 174039	XTSZDSKC-H1625W592 174035	XTPZSSZ1 172698
XTSZDCKV3L-H1625W195 174062	XTSZDCKV3R-H1625W195 174063	XTSZDCKV4L-H1625W195 174064	XTSZDCKV4L-H1625W195 174033	XTSZDCKC-H1625W195 174061	XTPZSSZ1 172698
XTSZDCKV3L-H1625W395 174031	XTSZDCKV3R-H1625W395 174032	XTSZDCKV4R-H1625W395 174029	XTSZDCKV4R-H1625W395 174034	XTSZDCKC-H1625W395 174030	XTPZSSZ1 172698

Note

* Finish in special RAL colour

xEnergy Switchboards

Cable Connection Boxes				
Module height	Partition dropper bar/ cable connection area incl. screws	Stack/ expansion frame for cable connection box incl. screws	Closing plates cable connection box	
			Article No. per pack/unit Pack = 1 Set	Contents
50	XTPFUUZ-H50 174017	-	XTPFCUV1-H50MW600 174049	
100	XTPFUUZ-H100 174018	-	XTPFCUV1-H100MW600 174050	KT21 = 1 pc. KT29 = 2 pcs.
150	XTPFUUZ-H150 174019	XTPFCUB-H150MW600 174042	XTPFCUV1-H150MW600 174052	KT21 = 1 pc. KT29 = 2 pcs.
200	XTPFUUZ-H200 174020	XTPFCUB-H200MW600 174043	XTPFCUV1-H200MW600 174053	KT21 = 1 pc. KT29 = 4 pcs.
250	XTPFUUZ-H250 174021	XTPFCUB-H250MW600 174044	XTPFCUV1-H250MW600 174054	KT21 = 1 pc. KT29 = 6 pcs.
300	XTPFUUZ-H300 174022	XTPFCUB-H300MW600 174045	XTPFCUV1-H300MW600 174055	KT21 = 1 pc. KT29 = 8 pcs.
350	XTPFUUZ-H350 174023	-	-	
400	XTPFUUZ-H400 174024	XTPFCUB-H400MW600 174046	XTPFCUV1-H400MW600 174056	KT21 = 1 pc. KT29 = 12 pcs.
500	XTPFUUZ-H500 174025	XTPFCUB-H500MW600 174047	XTPFCUV1-H500MW600 174057	KT21 = 1 pc. KT42 = 8 pcs.
600	XTPFUUZ-H600 174026	XTPFCUB-H600MW600 174048	XTPFCUV1-H600MW600 174058	KT21 = 1 pc. KT42 = 10 pcs.
800	XTPFUUZ-H800 174027	-	-	
1000	XTPFUUZ-H1000 174028	-	-	
1200	XTPFUUZ-H1200 174041	-	-	

Dropper bar supports		
Cu-cross-section (mm)	Bar support at top and bottom level incl. fixing bracket and screws	Bar support at medium level incl. fixing bracket and screws
	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 pc.
2x40/10	XTDFSTB2X40X10/80 174069	XTDFBM2X40X10/80 174073
2x60/10	XTDFSTB2X60X10/80 174071	XTDFBM2X60X10/80 174075

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

Components XF Form 4



xEnergy Switchboards

Doors to Cable Connection Area



VT35513

Section width (mm)	Cable connect. area width mm	Degree of protection	XF Section Box Solution/4b left or right, doors without lighting can be used on both sides Article No. per pack/unit	XF Section Box Solution/4b right Article No. per pack/unit	XW Section Article No. per pack/unit	
800	200	IP31	XTSZDCKV3L-H1625W195 174062	XTSZDCKV3R-H1625W195 174063	XTSZDCKV3R-H1625W220 172733	
		IP42	XTSZDCKV4L-H1625W195 174064	XTSZDCKV4R-H1625W195 174029	-	
		IP55	XTSZDCKC-H1625W195 174061	-	XTSZDCKC-H1625W220 172731	
1000	400	IP31	XTSZDCKV3L-H1625W395 174031	XTSZDCKV3R-H1625W395 174032	XTSZDCKV3R-H1625W420 172734	
		IP42	XTSZDCKV4L-H1625W395 174033	XTSZDCKV4R-H1625W395 174034	-	
		IP55	XTSZDCKC-H1625W395 174030	-	XTSZDCKC-H1625W420 172732	

xEnergy Switchboards

Cable Connection Boxes				
Module height	Partition dropper bar / cable connection area incl. screws	Stack/ expansion frame for cable connection box incl. screws	Closing plates cable connection box	
			Article No. per pack/unit Pack = 1 Set	Content
50	XTPFUUZ-H50 174017	-	XTPFCUV1-H50MW600 174049	
100	XTPFUUZ-H100 174018	-	XTPFCUV1-H100MW600 174050	KT21 = 1 pc. KT29 = 2 pcs.
150	XTPFUUZ-H150 174019	XTPFCUB-H150MW600 174042	XTPFCUV1-H150MW600 174052	KT21 = 1 pc. KT29 = 2 pcs.
200	XTPFUUZ-H200 174020	XTPFCUB-H200MW600 174043	XTPFCUV1-H200MW600 174053	KT21 = 1 pc. KT29 = 4 pcs.
250	XTPFUUZ-H250 174021	XTPFCUB-H250MW600 174044	XTPFCUV1-H250MW600 174054	KT21 = 1 pc. KT29 = 6 pcs.
300	XTPFUUZ-H300 174022	XTPFCUB-H300MW600 174045	XTPFCUV1-H300MW600 174055	KT21 = 1 pc. KT29 = 8 pcs.
350	XTPFUUZ-H350 174023	-	-	
400	XTPFUUZ-H400 174024	XTPFCUB-H400MW600 174046	XTPFCUV1-H400MW600 174056	KT21 = 1 pc. KT29 = 12 pcs.
500	XTPFUUZ-H500 174025	XTPFCUB-H500MW600 174047	XTPFCUV1-H500MW600 174057	KT21 = 1 pc. KT42 = 8 pcs.
600	XTPFUUZ-H600 174026	XTPFCUB-H600MW600 174048	XTPFCUV1-H600MW600 174058	KT21 = 1 pc. KT42 = 10 pcs.
800	XTPFUUZ-H800 174027	-	-	
1000	XTPFUUZ-H1000 174028	-	-	
1200	XTPFUUZ-H1200 174041	-	-	

Dropper bar supports		
Cu-cross-section (mm)	Bar support at top and bottom level incl. fixing bracket and screws	Bar support at medium level incl. fixing bracket and screws
	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 pc.
2x40/10	XTDFSTB2X40X10/80 174069	XTDFBM2X40X10/80 174073
2x60/10	XTDFSTB2X60X10/80 174071	XTDFBM2X60X10/80 174075

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

xEnergy Switchboards

Accessories for Outgoing Section: xEnergy EBS Front Panels for FAZ



Width mm	H = 150 mm	H = 200 mm	H = 300 mm	H = 400 mm	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
425	XMMC0604C 283979	XMMC0804C 283983	XMMC1204C 283987	XMMC1604C 283991	
	122152 *	122154 *	122156 *	122158 *	
600	XMMC0606C 283981	XMMC0806C 283985	XMMC1206C 283989	XMMC1606C 283993	
	122153 *	122155 *	122157 *	122159 *	
800	XMMC0608C 106718	XMMC0808C 106730	-	-	
	122507 *	122509 *			
1000	XMMC0610C 106719	XMMC0810C 106731	-	-	
	122508 *	122510 *			

Accessories for Outgoing Section: xEnergy EBS Front Panels empty



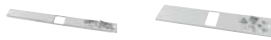
Width mm	H = 25mm	H = 50mm	H = 100mm	H = 150mm	H = 200mm	H = 250mm	H = 300mm	H = 400mm	H = 600mm	H = 800mm	ventilated H = 100mm
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit
600	XME0106C 158619	XME0206C 283924	XME0406C 283930	XME0606C 283936	XME0806C 283942	XME1006C 144588	XME1206C 283947	XME1606C 283950	XME2406C 294924	XME3206C 294926	XME0406CV 283932
	158620 *	122122 *	122126 *	122131 *	122136 *	144590 *	122140 *	122142 *	122413 *	122415 *	122128 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Section: xEnergy EBS Front Panels for PKZ 0/4



wa_vt67813

wa_vt67913

Width mm	horizontal 3-pole H = 50 mm PKZ0 Article No. per pack/unit	horizontal 3-pole H = 100 mm PKZ4 Article No. per pack/unit	
600	XMP030206C 284089 122213 *	XMP430406C 284097 122215 *	

Accessories for Outgoing Section: xEnergy EBS Front Panels for NZM1



wa_vt66913

wa_vt67413

wa_vt67513

wa_vt67413

Width mm	UK 1xNZM1 horiz. 4-pole H = 150 mm fixed with 90/90 cut- out for mea- suring device Article No. per pack/unit	UK 1xNZM1 horiz. 4-pole H=150 mm fixed Article No. per pack/unit	1xNZM1 horizontal 3-pole H=100 mm fixed Article No. per pack/unit	1xNZM1 horizontal 4-pole H=150 mm fixed Article No. per pack/unit	1xNZM1 horizontal 4-pole H = 150 mm plug-in technology Article No. per pack/unit	
600	XMN140606C-1-UK 110262 122599 *	XMN140606C-UK 110259 122596 *	XMN130406C 283997 122161 *	XMN140606C 284005 122165 *	XMN130606C 121797 122636 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Section: xEnergy EBS Front Panels for NZM2



wa_vt54613

Width mm	UK 1xNZM2 horizontal 4-pole H = 200 mm with cut-out for measuring devices, fixed Article No. per pack/unit	UK 1xNZM2 horizontal 4-pole H = 200 mm fixed Article No. per pack/unit	1xNZM2 horizontal 3-pole H = 150 mm fixed Article No. per pack/unit	1xNZM2 horizontal 3-pole H = 150 mm plug-in technology Article No. per pack/unit	1xNZM2 horizontal 3-pole H = 150 mm with motor lift (sticks 15mm out of front panel) Article No. per pack/unit	1xNZM2 horizontal 4-pole H = 200 mm fixed Article No. per pack/unit	1xNZM2 horizontal 4-pole H = 200 mm with motor lift (sticks 15mm out of front panel) Article No. per pack/unit	1xNZM2 horizontal 4-pole H = 200 mm plug-in tech- nology Article No. per pack/unit
600	XMN240606C-1-UK 110263 122600 *	XMN240606C-UK 110260 122597 *	XMN230606C 284013 122169 *	XMN230606C 284013 122169 *	XMN230606CR 292907 122406 *	XMN240806C 284026 122176 *	XMN240806CR 125993 125994 *	XMN240806C 284026 122176 *

Accessories for Outgoing Section: xEnergy EBS Front Panels for NZM2 (continued)



wa_vt70713

Width mm	1xNZM2 horizontal 4-pole H = 200 mm cover for RCD module fixed Article No. per pack/unit
600	XMN240806CF 284659 122356 *

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Section: xEnergy EBS Front Panels for NZM3



wa_vt67113

Width mm	1xNZM3 horizontal 3-pole H = 200 mm fixed	1xNZM3 horizontal 3-pole H = 250 mm fixed	1xNZM3 horizontal 4-pole H = 250 mm fixed	1xNZM3 horizontal 4-pole H = 300 mm fixed	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
600	XMN330806C 284036 122181 *	XMN331006C 284039 122183 *	XMN341006C 284052 122191 *	XMN341206C 284055 122193 *	

Accessories for Outgoing Section: xEnergy EBS Front Panels for NZM3 (continued)



wa_vt73013

Width mm	1xNZM3, horizontal 3-pole, H = 200 mm with motor lift sticking 55 mm out of front panel, tilting the front panel is not possible, fixed Article No. per pack/unit	1xNZM3, horizontal 4-pole, H = 250 mm with motor lift sticking 55 mm out of front panel, tilting the front panel is not possible, fixed Article No. per pack/unit	1xNZM3 horizontal H = 250 mm plug-in technology	1xNZM3 horizontal H = 300 mm plug-in technology	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
600	XMN330806CR 284037 122182 *	XMN341006CR 284053 122192 *	XMN331006CP 172200 172324 *	XMN341206CP 172202 172325 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Accessories for Outgoing Section: Mounting Plates for PKZ



wa_vt68313

wa_vt68113

Width mm	horizontal 3-pole H = 50 mm Article No. per pack/unit	horizontal 3-pole H = 100 mm Article No. per pack/unit	
600	XMP030206M 284090	XMP430406M 284098	

Accessories for Outgoing Section: Mounting Plates for NZM1



wa_vt68113

Width mm	1xNZM1 horizontal 3-pole H = 100 mm fixed Article No. per pack/unit	1xNZM1 horizontal 4-pole H = 150 mm fixed Article No. per pack/unit	1xNZM1 horizontal 3-pole H = 150 mm plug-in technology Article No. per pack/unit	
425	XMN130404M 283996	XMN140604M 284004	XMN130604MP 121798	
600	XMN130406M 283998	XMN140606M 284006	XMN130606MP 121796	

xEnergy Switchboards

Accessories for Outgoing Section: Mounting Plates for NZM2



wa_vt54913

Width mm	1xNZM2 horizontal 3-pole H = 150 mm fixed	1xNZM2 horizontal 3-pole H = 150 mm plug-in technology	1xNZM2 horizontal 3-pole H = 150 mm with motor lift (sticking 15mm out of front panel)	1xNZM2 horizontal 4-pole H = 200 mm fixed	1xNZM2 horizontal 4-pole H = 200 mm plug-in technology	1xNZM2 horizontal 4-pole H = 200 mm cover for RCD module fixed	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
425	XMN230604M 284012	-	-	XMN240804M 284025	-	-	
600	XMN230606M 284014	XMN230606MP 284724	XMN230606M 284014	XMN240806M 284027	XMN240806MP 284726	XMN240806MF 134485	

Accessories for Outgoing Section: Mounting Plates for NZM3



wa_vt72913

Width mm	1xNZM3 horizontal 3-pole H = 200 mm fixed	1xNZM3 horizontal 3-pole H = 250 mm fixed	1xNZM3 horizontal 4-pole H = 250 mm fixed	1xNZM3 horizontal 4-pole H = 300 mm fixed	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
600	XMN330806M 284038	XMN331006M 284041	XMN341006M 284054	XMN341206M 284057	

xEnergy Switchboards

Accessories for Outgoing Section: Mounting Plates for NZM3 (continued)

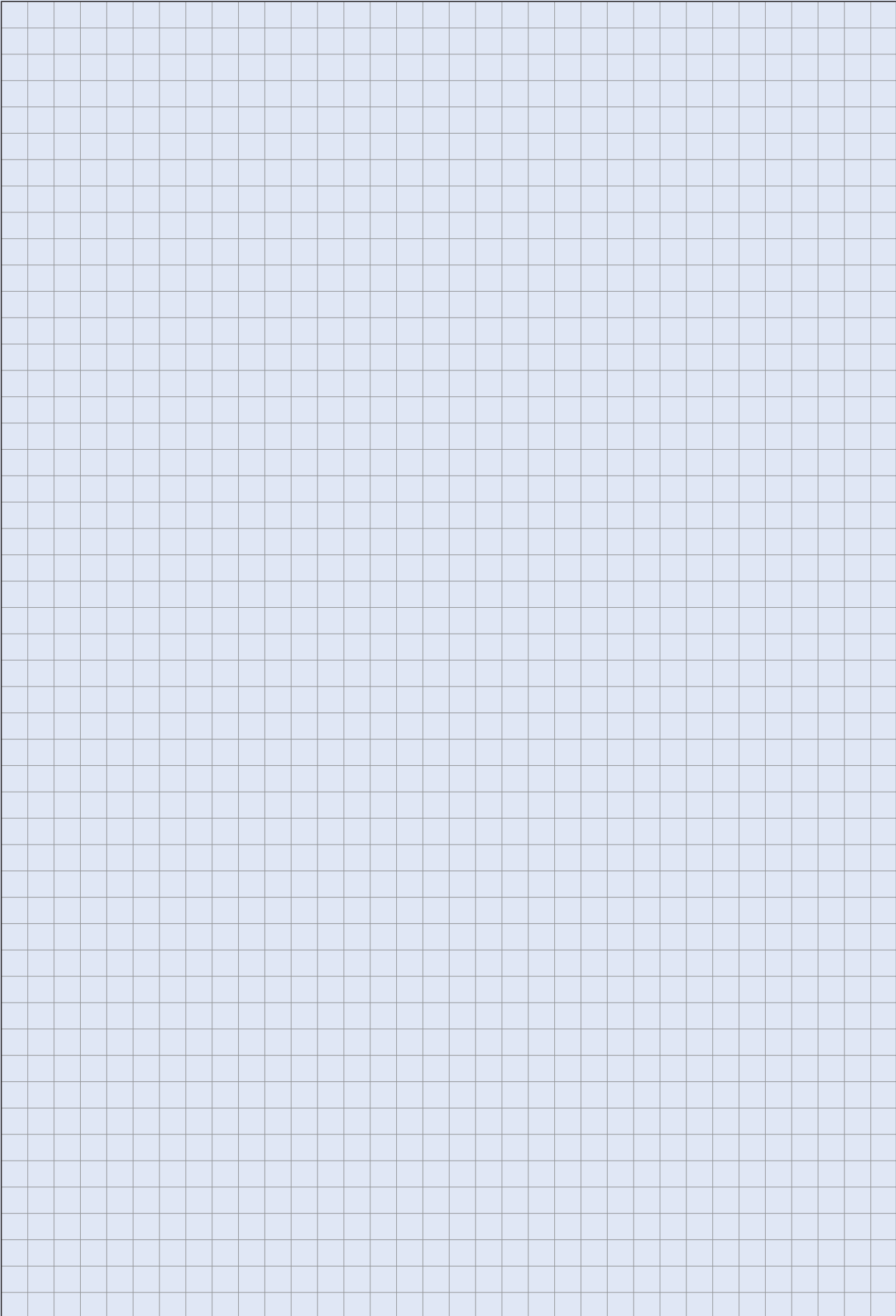


wa_v172913

Width mm	1xNZM3, horizontal 3-pole, H = 200 mm with motor lift sticking 55 mm out of front panel, tilting the front panel is not possible, fixed Article No. per pack/unit	1xNZM3, horizontal 4-pole, H = 250 mm with motor lift stick- ing 55 mm out of front panel, tilting the panel is not possible, fixed Article No. per pack/unit	1xNZM3 horizontal 3-pole H = 250 mm plug-in technology Article No. per pack/unit	1xNZM3 horizontal 4-pole H = 300 mm plug-in technology Article No. per pack/unit	
600	XMN330806M 284038	XMN341006M 284054	XMN331006MP 172199	XMN341206MP 172201	

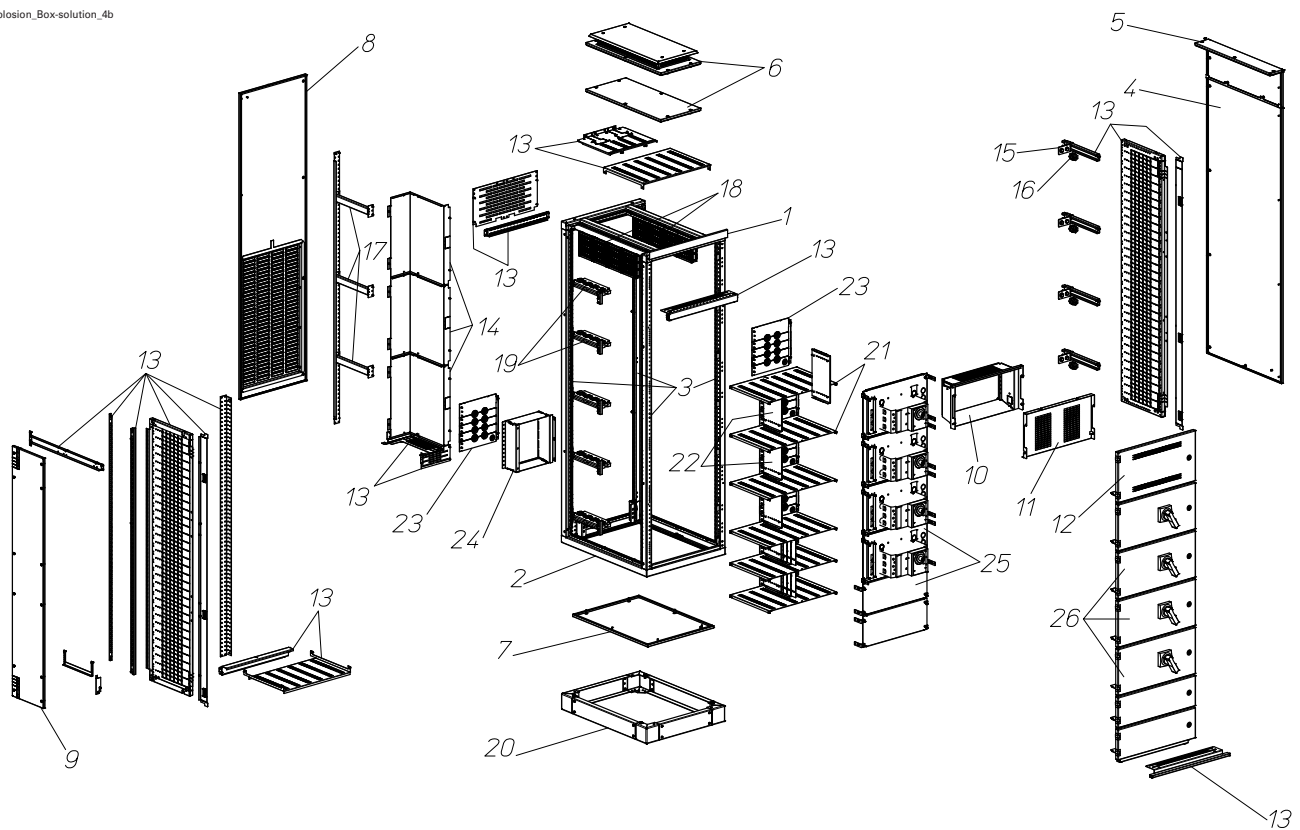
xEnergy Switchboards

Notes



Box Solution Motor Control Center in Fixed Technology

Explosion_Box-solution_4b



- 1 Frame - top
- 2 Frame - bottom
- 3 Vertical profiles
- 4 Side panel
- 5 Corner element for side panel
- 6 Top panel
- 7 Bottom panel
- 8 Rear panel
- 9 Separation panel
- 10 Wiring/control module
- 11 Partition main busbar
- 12 Door - control module
- 13 Fitting kit
- 14 Partition dropper bar
- 15 Bracket PE dropper bar
- 16 Insulators N conductor
- 17 Cable strain relief rails
- 18 Main busbar supports
- 19 Dropper bar supports
- 20 Plinth
- 21 Separation panel module/module
- 22 Separation panel dropper bar/cable box

- 23 Cable entry - cable box
- 24 Extension/stack frame cable box
- 25 Modules
- 26 Module doors

Features

- Widths: 600, 800, 1000mm
- Module width: 600mm
- Form 4 up to type 7
- 3, 4, 3P+N
- IP31, IP42, IP55
- Circuit breaker can be used with plug base
- Switchgear can be realised with remote operation
- Operation behind the door or with rotary door coupling handle
- Each module has its own module door
- Widths 800 and 1000mm come with a door to the cable connection area
- Dropper bar 1600-2000A
- Cable connection area at the back
- Each module has its own cable connection box
- Cable connection box can be expanded by an additional frame

- Modules are available in heights from 200 to 1250mm
- Max. height of installation/switchgear area = 1600mm

Notes

- Frame comes with a blue design strip (at the top)
- Doors include a locking system for a 3mm two-way key-bit
- For cable guidance from the top you need to install an additional cable guidance section at the rear of the system
- With cover panels consisting of several parts it may be necessary to ensure the required degree of protection through additional measures
- The max. height available for mounting plates is 1600mm
- The max. installation height available in the control module is 280mm
- For flanges, clip-down handles, eyebolts, 180° hinges, fixing brackets, Durostone posts, connection sets, pockets for circuit diagrams and other accessories, please refer to chapter "General Accessories".

XF Sections, Box Solution



wa_vt03814



VT37913



VT37813



VT39413

Section width mm	Cable connection area at the side	XF Fitting kit Form 4 for width 600mm Article No. per pack/unit	XF Extension kit in combination with XF XTMFS4-W600 fitting kit - additional cable connection area at the side Article No. per pack/unit	Set of dropper bar supports for N in XF section, 4 insulators, H = 40mm, incl. screws Article No. per pack/unit	Set of dropper bar supports for PE in XF section, 4 fixing brackets, incl. screws Article No. per pack/unit	Wiring and control module for the installation of different electrical components, for holding a cable duct Article No. per pack/unit
600	no	XTMFS4-W600 174000	-	XTDWSVN1 172663	XTDWSVPE1 174076	XTPWBAVC-H325W600 172677
800	yes	XTMFS4-W600 174000	XTMFC4-800 173999	XTDWSVN1 172663	XTDWSVPE1 174076	XTPWBAVC-H325W800 172678
1000	yes	XTMFS4-W600 174000	XTMFC4-W1000 173998	XTDWSVN1 172663	XTDWSVPE1 174076	XTPWBAVC-H325W1000 172679

Note

* Finish in special RAL colour



VT36613



VT36313



VT36113

Cover in front of main busbars instead of a control module incl. screws Article No. per pack/unit	Dropper bar support Article No. per pack/unit	Partition dropper bars Article No. per pack/unit	Set of cable strain relief rails Article No. per pack/unit	Partition switchgear area / switchgear area Article No. per pack/unit	Partition dropper bar / cable connect. area Article No. per pack/unit	Door IP31 for control module, left and right, ventilated, H = 325mm incl. hinges, 3mm two-way key-bit lock and two-way key Article No. per pack/unit	Door IP55 for control module, left and right, closed H = 325mm incl. hinges, 3mm two-way key-bit lock and two-way key Article No. per pack/unit
XTPWBAVP-H325W600 172687	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTPFUUH1-MW600 174016	see table below	XTSZDSQV3-H325W600 172707	XTPWBAVP-H325W600 172687
XTPWBAVP-H325W600 172688	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTPFUUH1-MW600 174016	see table below	XTSZDSQV3-H325W800 172708	XTPWBAVP-H325W800 172688
XTPWBAVP-H325W600 172689	see table below	XTPFDCZ1 174003	XTMFAR1 174002	XTPFUUH1-MW600 174016	see table below	XTSZDSQV3-H325W1000 172706	XTPWBAVP-H325W1000 172689

Note

* Finish in special RAL colour



VT22413

Door to cable con. a. IP31, left, ventilated, 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Door to cable con. a., IP31, right, ventilated, 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Door to cable con. a. IP42, left, ventilated, 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Door to cable con. a. IP42, right, ventilat., 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Door to cable con. a. IP55, right, closed, 3mm two-way key-bit lock and two-way key incl. screws Article No. per pack/unit	Separation panel section/section incl. screws Article No. per pack/unit
XTSZDSKV3L-H1625W592 174036	XTSZDSKV3R-H1625W592 174037	XTSZDSKV4L-H1625W592 174038	XTSZDSKV4R-H1625W592 174039	XTSZDSKC-H1625W592 174035	XTPZSSZ1 172698
XTSZDCKV3L-H1625W195 174062	XTSZDCKV3R-H1625W195 174063	XTSZDCKV4L-H1625W195 174064	XTSZDCKV4R-H1625W195 174033	XTSZDCKC-H1625W195 174061	XTPZSSZ1 172698
XTSZDCKV3L-H1625W395 174031	XTSZDCKV3R-H1625W395 174032	XTSZDCKV4R-H1625W395 174029	XTSZDCKV4R-H1625W395 174034	XTSZDCKC-H1625W395 174030	XTPZSSZ1 172698

Note

* Finish in special RAL colour

xEnergy Switchboards

Doors to Cable Connection Area

Section width mm	Cable connect. area width mm	Degree of pro- tection	XF Section Box Solution/4b left or right, for doors without lighting it can be used on both sides Article No. per pack/unit	XF Section Box Solution/4b right Article No. per pack/unit	
800	200	IP31	XTSZDCKV3L-H1625W195 174062	XTSZDCKV3R-H1625W195 174063	
		IP42	XTSZDCKV4L-H1625W195 174064	XTSZDCKV4R-H1625W195 174029	
		IP55	XTSZDCKC-H1625W195 174061	-	
1000	400	IP31	XTSZDCKV3L-H1625W395 174031	XTSZDCKV3R-H1625W395 174032	
		IP42	XTSZDCKV4L-H1625W395 174033	XTSZDCKV4R-H1625W395 174034	
		IP55	XTSZDCKC-H1625W395 174030	-	

xEnergy Switchboards

Cable Connection Boxes				
Module height	Partition dropper bar/ cable connection area incl. screws	Stack/ expansion frame for cable connection box incl. screws	Closing plates cable connection box	
			Article No. per pack/unit Pack = 1 Set	Content
50	XTPFUUZ-H50 174017	-	XTPFCUV1-H50MW600 174049	
100	XTPFUUZ-H100 174018	-	XTPFCUV1-H100MW600 174050	KT21 = 1 pc. KT29 = 2 pcs.
150	XTPFUUZ-H150 174019	XTPFCUB-H150MW600 174042	XTPFCUV1-H150MW600 174052	KT21 = 1 pc. KT29 = 2 pcs.
200	XTPFUUZ-H200 174020	XTPFCUB-H200MW600 174043	XTPFCUV1-H200MW600 174053	KT21 = 1 pc. KT29 = 4 pcs.
250	XTPFUUZ-H250 174021	XTPFCUB-H250MW600 174044	XTPFCUV1-H250MW600 174054	KT21 = 1 pc. KT29 = 6 pcs.
300	XTPFUUZ-H300 174022	XTPFCUB-H300MW600 174045	XTPFCUV1-H300MW600 174055	KT21 = 1 pc. KT29 = 8 pcs.
350	XTPFUUZ-H350 174023	-	-	
400	XTPFUUZ-H400 174024	XTPFCUB-H400MW600 174046	XTPFCUV1-H400MW600 174056	KT21 = 1 pc. KT29 = 12 pcs.
500	XTPFUUZ-H500 174025	XTPFCUB-H500MW600 174047	XTPFCUV1-H500MW600 174057	KT21 = 1 pc. KT42 = 8 pcs.
600	XTPFUUZ-H600 174026	XTPFCUB-H600MW600 174048	XTPFCUV1-H600MW600 174058	KT21 = 1 pc. KT42 = 10 pcs.
800	XTPFUUZ-H800 174027	-	-	
1000	XTPFUUZ-H1000 174028	-	-	
1200	XTPFUUZ-H1200 174041	-	-	

Dropper bar supports		
Cu-cross-section (mm)	Bar support at top and bottom level incl. fixing bracket and screws	Bar support at medium level incl. fixing bracket and screws
	Article No. per pack/unit Pack = 1 Set	Article No. per pack/unit Pack = 1 pc.
2x40/10	XTDFSTB2X40X10/80 174069	XTDFBM2X40X10/80 174073
2x60/10	XTDFSTB2X60X10/80 174071	XTDFBM2X60X10/80 174075

The number of dropper bar supports and the distance between them varies depending on the short-circuit strength of the dropper bars (see Technical Section).

xEnergy Switchboards

General Accessories: Mounting Plates undrilled

Incl. fixing material



wa_v133513

Width mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 350 mm	H = 400 mm	H = 500 mm	
	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	
600	XME0606M 284728	XME0806M 283945	XME1006M 144586	XME1206M 285686	XME1406M 171724	XME1606M 283951	XME2006M 171725	

General Accessories: Mounting Plates undrilled (continued)

Incl. fixing material

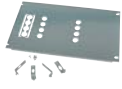


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Width mm	H = 600 mm	H = 800 mm	H = 950 mm	H = 1000 mm	H = 1200 mm	
	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	Article No. per pack/unit Pack=1 Set	
600	XME2406M 285687	XME3206M 126010	XME3806M 171660	XME4006M 171726	XME4806M 171727	

xEnergy Switchboards

Accessories for Outgoing Section: Mounting Plates for Box Solution



VT00909

Width mm	NZM1 3+4-pole H = 200 mm horizontal	NZM2 3-pole H = 200 mm horizontal	NZM2 4-pole H = 300 mm fixed/withdraw- able, horizontal	NZM3 3+4-pole H = 300 mm fixed and plug-in horizontal	NZM3 3+4-pole H = 500 mm withdrawable horizontal	
	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	Article No. per pack/unit	
425	XMN130804M-BS 125973	XMN230804M-BS 125974	XMN241204M-BS 125975	-	-	
600	XMN130806M-BS 125977	XMN230806M-BS 125978	XMN241206M-BS 125979	XMN341206M-F-BS 125980	XMN342006M-W-BS 125981	

Accessories for Outgoing Section: Snap-on cover without cut-out for box solution



VT00709

Width mm	H = 150 mm	H = 250 mm	
	Article No. per pack/unit	Article No. per pack/unit	
425	XMC0604-BS 125983 125987 *	XMC1004-BS 125984 125988 *	
600	XMC0606-BS 125985 125989 *	XMC1006-BS 125986 125990 *	

Note

* Finish in special RAL colour

xEnergy Switchboards

Doors for Box Solution - compatible with XVTL

Incl. hinge material. Standard lock = 3 mm two-way key-bit



wa_vt63113

Height mm	Doors to switch gear area width 600 mm suitable for left and right side up to IP55 Article No. per pack/unit Pack = 1 pc.	
Doors for Box Solution		
200	XSDBSC0206 167537 167543 *	
250	XSDBSC02506 171680 171707 *	
300	XSDBSC0306 167538 167544 *	
350	XSDBSC03506 167539 167545 *	
400	XSDBSC0406 167540 167546 *	
500	XSDBSC0506 167541 167547 *	
600	XSDBSC0606 167542 167548 *	
800	XSDBSC0806 171681 171708 *	
975	XSDBSC097506 171682 171709 *	
1000	XSDBSC1006 171683 171710 *	
1200	XSDBSC1206 171684 171711 *	

Note

* Finish in special RAL colour

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xEnergy Switchboards

Material:		
Base material		Stainless steel 2mm
Screws		Stainless steel
Copper to be used		30x10
Standards/Regulations		
Internal separation		IEC/EN 61439-1/2, DEKRA (KEMA)
Ambient temperature	°C	Form 1 to 4 / up to type 7 -5 to +50
Cu to be used according to standard		EN 13601-CU-ETP-R250-SH
Rel. air humidity	%	50 at 40°C
Protective measures		Protection class I, connection of earth conductor
Degree of protection		IP31, IP42, IP55 acc. to IEC/EN 60529
Rated insulation voltage U_i	V	1000
Rated operational voltage U_e	V	690
Insulation coordination		III/3
Insulation voltage U_{imp}	kV	up to 12
Overvoltage category		IV
Degree of pollution		3
Rated frequency	Hz	40-60
Rated current of busbars I_e	A	4500
Rated short-time withstand current of busbars I_{CW}	kA	up to 105 (1s)
Rated short-time withstand current of busbars I_{CW}	kA	up to 66 (3s)
Rated peak withstand current of busbars I_{pk}	kA	220
Center-to-center distance between phases	mm	132.5
Sheet thickness	mm	Door, frame = 2, rear, side and cover panels = 1.5
Metal surfaces		Electrogalvanized, powder-coated
Colour		RAL 7035 light-grey, structured
Lock		Rod lock with 2 or 4-point lock and activation pin, 3 mm two-way key-bit
Pre-requisites for set-up		Indoor set-up according to IEC/EN 61439
Dimensions	mm	Width: 300, 425, 600, 800, 1000, 1100, 1200, 1350 Height: 2000 Depth: 800
Cabinet plinth	mm	100 or 200

xEnergy Switchboards

Type Code (continued on the following pages)

XT					
A General Accessories	A Small Accessories	B Brackets	1 Version 1 L-shape for XP 2 Version 2 Copper carrier for connection System (3 Rails) 3 Version 3 Copper carrier for connection System (1 Rail) 4 Version 4 Bracket for Busbar Support fixation -DIN939- Stud screw -DIN558- Hexagon Head Screw -DIN603- Hexagon Head Screw -DIN6340- Extra Strong Washer	M10X100 Size M10X80 Size M10X85 Size M12X180 Size M12X170 Size M10X210 Size M10X60 Size M10X70 Size M12X60 Size M12X90 Size M10 Size	
	N Standard parts (Norm)	S Screw			
	P Plinth	W Washer	F Front Support	PE Earth conductor	1 Version 1
B Mainbusbar	G General Purpose	C Cable Access	V Vertical Busbar Arrangement	PE Earth conductor	1 Version 1 2 Version 2
	Z Unspecified	B Busbar Support	Z Busbar Arrangement in Z-Axis	PE Earth conductor	1 Version 1
		B Busbar Support	L Left	12X30X10 3 Rows (12x30x10)	/3 3 Poles /4 4 Poles
				4X30X10 1 Row (4x30x10)	/3 3 Poles /4 4 Poles
				8X30X10 2 Rows (8x30x10)	/3 3 Poles /4 4 Poles
			M Middle	12X30X10 3 Rows (12x30x10)	/3 3 Poles /4 4 Poles
				4X30X10 1 Row (4x30x10)	/3 3 Poles /4 4 Poles
				8X30X10 2 Rows (8x30x10)	/3 3 Poles /4 4 Poles
			R Right	12X30X10 3 Rows (12x30x10)	/3 3 Poles /4 4 Poles
				4X30X10 1 Row (4x30x10)	/3 3 Poles /4 4 Poles
				8X30X10 2 Rows (8x30x10)	/3 3 Poles /4 4 Poles
D Dropperbusbar	W Withdrawable Section	S Set	V Vertical Busbar Arrangement	2X40X10 800mm ² rated current	/35 Short circuit rating 35kA /65 Short circuit rating 65kA /80 Short circuit rating 80kA
				2X60X10 1200mm ² rated current	/35 Short circuit rating 35kA /65 Short circuit rating 65kA /80 Short circuit rating 80kA
				N Neutral conductor for rear connection area	1 Version 1
				PE Earth conductor for rear connection area	1 Version 1
	F Fixed Section	B Busbar Support	M Top and Bottom Support	2X40X10 800mm ² rated current	/65 Short circuit rating 65kA /80 Short circuit rating 80kA
				2X60X10 1200mm ² rated current	/65 Short circuit rating 65kA /80 Short circuit rating 80kA
		S Set	V Vertical Busbar Arrangement	PE Earth conductor for rear connection area	1 Version 1
			TB Top and Bottom Support	2X40X10 800mm ² rated current	/65 Short circuit rating 65kA /80 Short circuit rating 80kA
				2X60X10 1200mm ² rated current	/65 Short circuit rating 65kA /80 Short circuit rating 80kA

xEnergy Switchboards

Type Code (continued)

XT

S Structure	G General Purpose P Power W Withdrawable Z Unspecified	F Frame E Brand (Eaton) F Filler C Cover D Door	B Base H Height Profile H Height Profile VDR Vertical Design Rail (Eaton Brand) C Closed V3 Ventilated IP31 S Section Wide Cover C Connection Area Door M Mounting Area PA Partition Accessory S Section Door	A Open Frame (Busbar Access) S Standard 1 Version 1: Transition Section K Key plate/roller lever K Key plate/roller lever 2 2 Columns 3 3 Columns 4 4 Columns 5 5 Columns K Key plate/roller lever Q Quarter lock A Open Frame (Busbar Access) S Standard A Open Frame (Busbar Access) C Connection Roof 2 2 Columns 3 3 Columns 4 4 Columns 5 5 Columns 1 1 Column V3 Ventilated IP31 V4 Ventilated IP42 A Open Frame (Busbar Access) 1 Version 1 Standard BoxSolution CC Customer Connection	C Closed V3 IP31 V4 IP42 C Closed V3 IP31 V4 IP42 V4 IP42 C IP55 V3 IP31 V4 IP42 C Closed PA Partition Accessory V Ventilated C Closed PA Partition Accessory V Ventilated 2 2 nd part - Corner Piece C Closed 40X10 Cross Section 40x10	L Left R Right L Left R Right L Left R Right L Left R Right L Left R Right S Split Door L Left R Right L Left R Right							
							U Units	W Withdrawable	O Outgoing Parts	C Closed PA Partition Accessory	A Open Frame (Busbar Access) S Standard A Open Frame (Busbar Access) C Connection Roof 2 2 Columns 3 3 Columns 4 4 Columns 5 5 Columns 1 1 Column V3 Ventilated IP31 V4 Ventilated IP42 A Open Frame (Busbar Access) 1 Version 1 Standard BoxSolution CC Customer Connection	C Closed V3 IP31 V4 IP42 C IP55 V3 IP31 V4 IP42 C Closed PA Partition Accessory V Ventilated C Closed PA Partition Accessory V Ventilated 2 2 nd part - Corner Piece C Closed 40X10 Cross Section 40x10	L Left R Right L Left R Right L Left R Right S Split Door L Left R Right L Left R Right

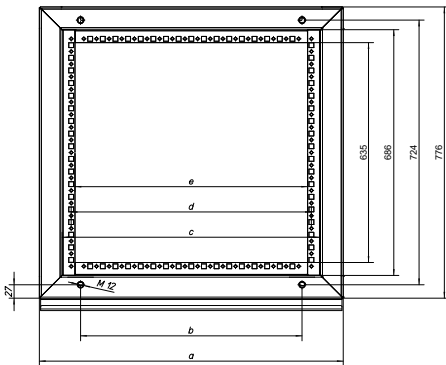
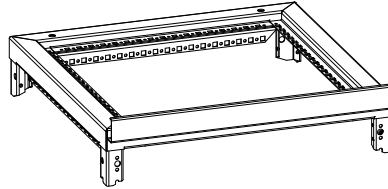
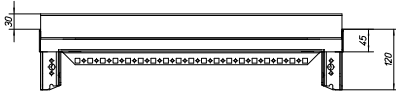
xEnergy Switchboards

Frame Structure

Dimensions of the top/bottom elements (standard version)

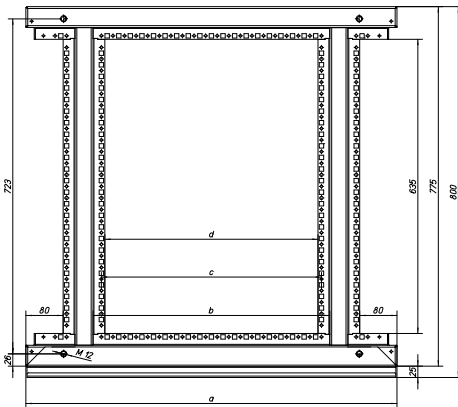
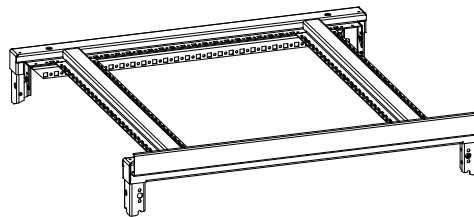
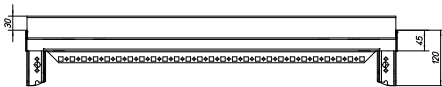
All dimensions are identical for both applications (top and bottom).

The only difference between the top and bottom elements is that the top elements come with 10mm thick welded flat-steel sheets to provide for better distribution of the forces when using the eyebolts for transportation purposes.



	a	b	c	d	e
W300	300	138	211	175	160
W425	425	263	336	300	285
W600	600	438	511	475	460
W650	650	488	561	525	510
W800	800	638	711	675	660
W850	850	688	761	725	710
W1000	1000	838	911	875	860
W1100	1100	938	1011	975	960
W1200	1200	1038	1111	1075	1060
W1350	1350	1188	1261	1225	1210

XSF_Katalog



	a	b	c	d
W425	425	136	100	85
W600	600	311	275	260
W800	800	511	475	460
W1000	1000	711	675	660
W1100	1100	811	775	760
W1200	1200	911	875	860
W1350	1350	1061	1025	1010

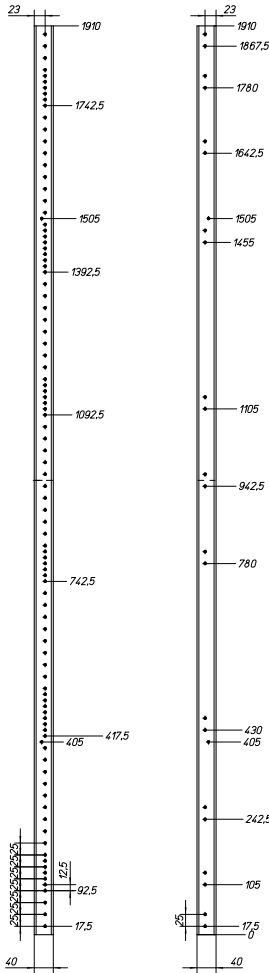
XTSZFBA_Katalog

xEnergy Switchboards

Frame Structure

Vertical Profile XTSPFH-H2000

An improvement of the vertical profiles now makes sure that all positions supposed to hold hinges come with pre-punched areas. The crucial advantage of this fact is that you only have to knock out the areas where you actually need a hole to fix the hinges. So it is no longer necessary to cover the holes you don't need with plastic pegs. Use an ordinary punching tool/pin punch (diameter no more than 4 mm) to knock out the required holes.



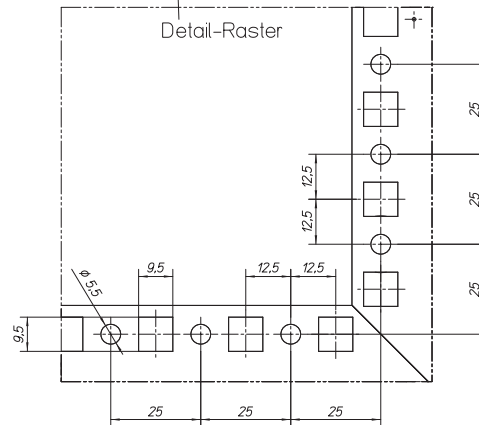
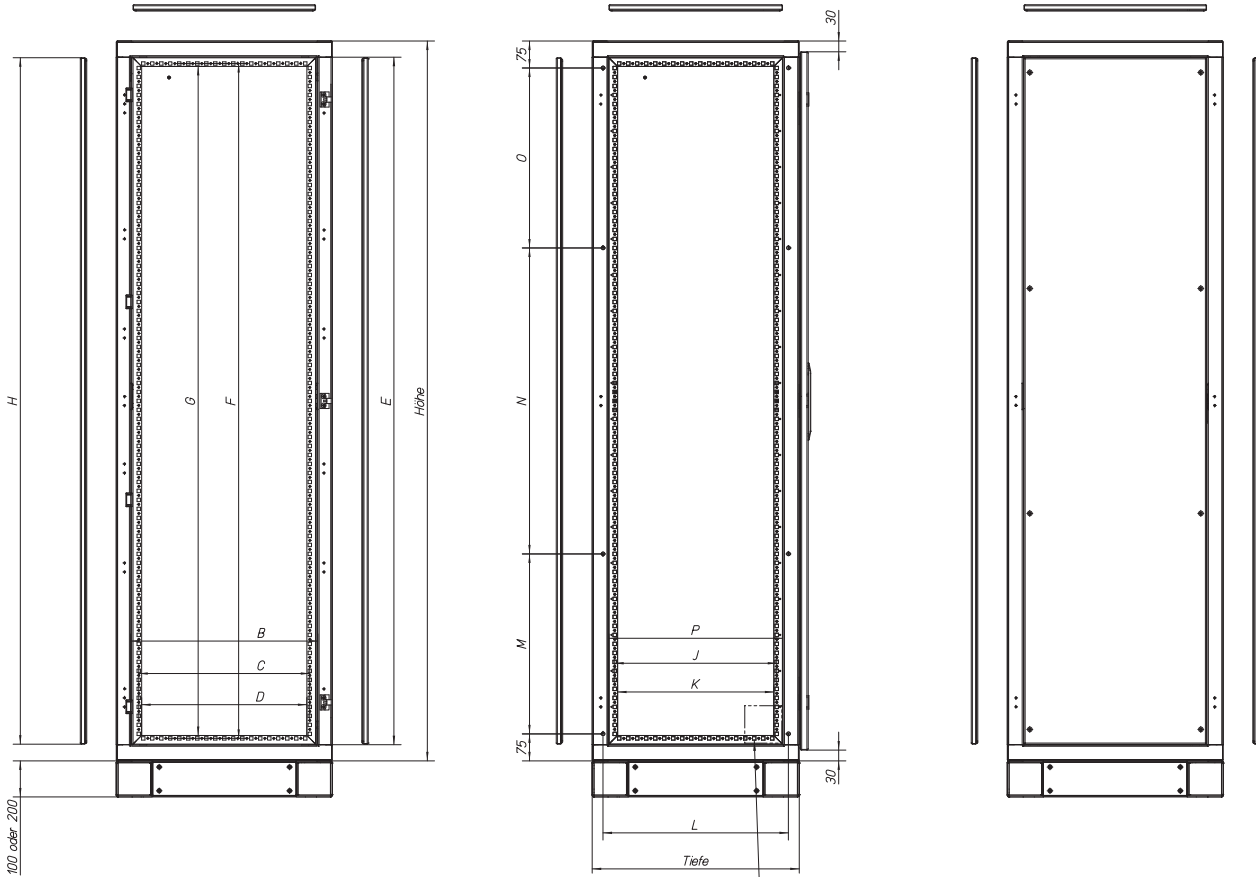
XTSPFH_H2000_Abm

The vertical profile on the left side shows all pre-punched areas possible for fixing the hinges. The vertical profile on the right side shows all pre-punched areas necessary for cabinets with doors to the cable connection area. If an outgoing section is installed in the mirror-inverted way, the vertical posts can be swapped. Spacing units on the vertical post are 12.5 and 25mm.

xEnergy Switchboards

Dimensions

xEnergy Dimensions



Mas_XE

Width	A	B	C	D
425	263	345	300	284
600	438	520	475	459
800	638	720	675	659
850	688	770	725	709
1000	838	920	875	859
1100	938	1020	975	959
1200	1038	1120	1075	1059
1350	1188	1270	1225	1209

Height	E	F	G	H
2000	1910	1875	1859	1907

Depth ¹⁾	Depth ²⁾	I	J	K	L	P
400	375	323	250	234	315	182
600	575	523	450	434	515	482
800	775	723	650	634	715	682

Spacing of the holes

Height	M	N	O
2000	500	850	500

¹⁾ Depth according to ordered part

²⁾ Real depth

As of width 1000 we use two-wing doors.

xEnergy Switchboards

Dimensions of the Main Busbar

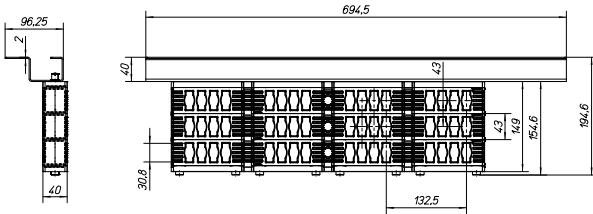
Dimensions of the main busbar supports

Base material = stainless steel

Screws = stainless steel

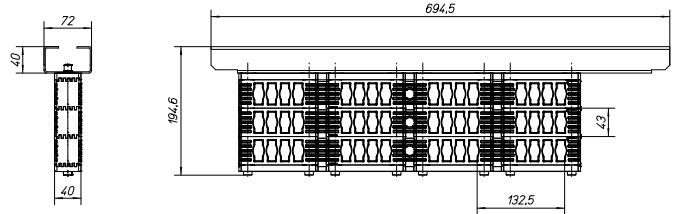
Insulation material = fibre-glass reinforced plastic (PA66, 45% fibre-glass reinforced, flame-retardant, no halogens and no phosphor)

Support at the side



SMN_172484

Support at the center



SMN_172482_Mittelhalter

xEnergy Switchboards

Max. Current Load and Power Loss, Short-Circuit Strength

Max. Current load and power loss (Pv) for main busbars

In	Copper bars/ Phase	Degree of protection	Admitted permanent current I depending on the ambient temperature and the degree of protection of the distribution sections			Power loss		
			25°C A	35°C A	50°C A	25°C W/m	35°C W/m	50°C W/m
A								
1000	1x30 (1000)	IP31	1050	950	800	88	72	51
		IP42	1050	950	800	88	72	51
		IP55	770	700	600	47	39	29
2000	2x30 (1250)	IP31	2080	1850	1500	183	145	95
		IP42	2080	1850	1500	183	145	95
		IP55	1450	1350	1200	89	77	61
2500	3x30 (1600)	IP31	2680	2450	2100	210	175	129
		IP42	2680	2450	2100	210	175	129
		IP55	2130	2000	1800	133	117	95
3000	6x30 (2500)	IP31	3930	3600	3100	237	199	148
		IP42	3930	3600	3000	237	199	138
		IP55	2900	2700	2400	129	112	89
4000	12x30(4000)	IP31	4870	4500	3800	226	193	138
		IP42	4770	4400	3700	217	184	130
		IP55	3260	3100	2800	101	92	75

Short-circuit strength of the main busbars

In	Copper bars/ Phase	Rated short- time withstand current 1s I _{cw}	Max. center-to- center distance between busbar supports	Rated short- time withstand current 1s I _{cw} with additional screws as reinforcement (acc. to instr.)	Max. center-to- center distance between busbar supports	Rated short- time withstand current 3s I _{cw}	Max. center-to- center distance between busbar supports
		kA	mm	kA	mm	kA	mm
A							
1000	1x30 (1000)	50	350	-	-	-	-
2000	2x30 (1250)	80	350	-	-	50	350
2500	3x30 (1600)	105	350	-	-	66	350
3200	6x30 (2500)	80	425	80	585	66	425
3200	6x30 (2500)	90	350	105	350	66	425
4000	12x30 (4000)	80	425	80	585	66	425
4000	12x30 (4000)	90	350	105	350	66	425

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **25°C**

Degree of prot. IP55			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	320	262	212	343	306	241
300	600	2000	499	406	344	554	437	360
300	800	2000	637	582	437	637	576	464
300	1000	2000	762	669	575	777	673	623
425	400	2000	410	366	316	470	408	361
425	600	2000	597	533	438	616	575	486
425	800	2000	725	659	584	753	675	612
425	1000	2000	880	781	695	881	804	700
600	400	2000	583	503	445	597	572	534
600	600	2000	706	662	630	752	695	647
600	800	2000	896	805	738	905	853	763
600	1000	2000	1011	962	855	1026	965	889
800	400	2000	662	639	651	726	692	662
800	600	2000	866	805	759	905	882	811
800	800	2000	1012	978	902	1043	995	953
800	1000	2000	1147	1087	1043	1187	1109	1043
850	400	2000	691	667	650	767	730	697
850	600	2000	911	845	795	935	908	859
850	800	2000	1041	1005	948	1078	1027	983
850	1000	2000	1181	1118	1071	1229	1147	1077
1000	400	2000	787	757	735	862	857	813
1000	600	2000	981	962	911	1026	995	966
1000	800	2000	1128	1087	1058	1187	1127	1076
1000	1000	2000	1288	1214	1160	1364	1265	1182
1100	600	2000	1031	1011	999	1090	1054	1023
1100	800	2000	1189	1143	1111	1265	1199	1141
1100	1000	2000	1363	1281	1221	1463	1352	1258
1200	600	2000	1082	1060	1047	1156	1117	1082
1200	800	2000	1252	1202	1166	1349	1274	1210
1200	1000	2000	1443	1352	1285	1572	1445	1340
1350	600	2000	1162	1136	1120	1264	1218	1177
1350	800	2000	1353	1294	1252	1489	1399	1323
1350	1000	2000	1575	1468	1388	1759	1604	1477

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **25°C**

Degree of prot. IP31			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	576	472	382	617	551	434
300	600	2000	898	731	619	997	787	648
300	800	2000	1147	1048	787	1147	1037	835
300	1000	2000	1372	1204	1035	1399	1211	1121
425	400	2000	738	659	569	846	734	650
425	600	2000	1075	959	788	1109	1035	875
425	800	2000	1305	1186	1051	1355	1215	1102
425	1000	2000	1584	1406	1251	1586	1447	1260
600	400	2000	1049	905	801	1075	1030	961
600	600	2000	1271	1192	1134	1354	1251	1165
600	800	2000	1613	1449	1328	1629	1535	1373
600	1000	2000	1820	1732	1539	1847	1737	1600
800	400	2000	1092	1054	1074	1198	1142	1092
800	600	2000	1429	1328	1252	1493	1455	1338
800	800	2000	1670	1614	1488	1721	1642	1572
800	1000	2000	1893	1794	1721	1959	1830	1721
850	400	2000	1140	1101	1073	1266	1205	1150
850	600	2000	1503	1394	1312	1543	1498	1417
850	800	2000	1718	1658	1564	1779	1695	1622
850	1000	2000	1949	1845	1767	2028	1893	1777
1000	400	2000	1236	1188	1154	1353	1345	1276
1000	600	2000	1540	1510	1430	1611	1562	1517
1000	800	2000	1771	1707	1661	1864	1769	1689
1000	1000	2000	2022	1906	1821	2141	1986	1856
1100	600	2000	1619	1587	1568	1711	1655	1606
1100	800	2000	1867	1795	1744	1986	1882	1791
1100	1000	2000	2140	2011	1917	2297	2123	1975
1200	600	2000	1623	1590	1571	1734	1676	1623
1200	800	2000	1878	1803	1749	2024	1911	1815
1200	1000	2000	2165	2028	1928	2358	2168	2010
1350	600	2000	1743	1704	1680	1896	1827	1766
1350	800	2000	2030	1941	1878	2234	2099	1985
1350	1000	2000	2363	2202	2082	2639	2406	2216

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **25°C**

Degree of prot. IP42			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	464	380	307	497	444	349
300	600	2000	724	589	499	803	634	522
300	800	2000	924	844	634	924	835	673
300	1000	2000	1105	970	834	1127	976	903
425	400	2000	595	531	458	682	592	523
425	600	2000	866	773	635	893	834	705
425	800	2000	1051	956	847	1092	979	887
425	1000	2000	1276	1132	1008	1277	1166	1015
600	400	2000	845	729	645	866	829	774
600	600	2000	1024	960	914	1090	1008	938
600	800	2000	1299	1167	1070	1312	1237	1106
600	1000	2000	1466	1395	1240	1488	1399	1289
800	400	2000	927	895	911	1016	969	927
800	600	2000	1212	1127	1063	1267	1235	1135
800	800	2000	1417	1369	1263	1460	1393	1334
800	1000	2000	1606	1522	1460	1662	1553	1460
850	400	2000	967	934	910	1074	1022	976
850	600	2000	1275	1183	1113	1309	1271	1203
850	800	2000	1457	1407	1327	1509	1438	1376
850	1000	2000	1653	1565	1499	1721	1606	1508
1000	400	2000	1023	984	956	1121	1114	1057
1000	600	2000	1275	1251	1184	1334	1294	1256
1000	800	2000	1466	1413	1375	1543	1465	1399
1000	1000	2000	1674	1578	1508	1773	1645	1537
1100	600	2000	1340	1314	1299	1417	1370	1330
1100	800	2000	1546	1486	1444	1645	1559	1483
1100	1000	2000	1772	1665	1587	1902	1758	1635
1200	600	2000	1407	1378	1361	1503	1452	1407
1200	800	2000	1628	1563	1516	1754	1656	1573
1200	1000	2000	1876	1758	1671	2044	1879	1742
1350	600	2000	1511	1477	1456	1643	1583	1530
1350	800	2000	1759	1682	1628	1936	1819	1720
1350	1000	2000	2048	1908	1804	2287	2085	1920

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **25°C**

Degree of prot. IP31 closed			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	448	367	297	480	428	337
300	600	2000	699	568	482	776	612	504
300	800	2000	892	815	612	892	806	650
300	1000	2000	1067	937	805	1088	942	872
425	400	2000	574	512	442	658	571	505
425	600	2000	836	746	613	862	805	680
425	800	2000	1015	923	818	1054	945	857
425	1000	2000	1232	1093	973	1233	1126	980
600	400	2000	816	704	623	836	801	748
600	600	2000	988	927	882	1053	973	906
600	800	2000	1254	1127	1033	1267	1194	1068
600	1000	2000	1415	1347	1197	1436	1351	1245
800	400	2000	894	863	879	980	934	894
800	600	2000	1169	1087	1025	1222	1191	1095
800	800	2000	1366	1320	1218	1408	1343	1287
800	1000	2000	1548	1467	1408	1602	1497	1408
850	400	2000	933	900	878	1035	986	941
850	600	2000	1230	1141	1073	1262	1226	1160
850	800	2000	1405	1357	1280	1455	1386	1327
850	1000	2000	1594	1509	1446	1659	1548	1454
1000	400	2000	984	946	919	1078	1071	1016
1000	600	2000	1226	1203	1139	1283	1244	1208
1000	800	2000	1410	1359	1323	1484	1409	1345
1000	1000	2000	1610	1518	1450	1705	1581	1478
1100	600	2000	1289	1264	1249	1363	1318	1279
1100	800	2000	1486	1429	1389	1581	1499	1426
1100	1000	2000	1704	1601	1526	1829	1690	1573
1200	600	2000	1353	1325	1309	1445	1396	1353
1200	800	2000	1565	1503	1458	1686	1593	1513
1200	1000	2000	1804	1690	1606	1965	1806	1675
1350	600	2000	1453	1420	1400	1580	1523	1471
1350	800	2000	1691	1618	1565	1861	1749	1654
1350	1000	2000	1969	1835	1735	2199	2005	1846

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **25°C**

Degree of prot. IP42 closed			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	432	354	286	463	413	325
300	600	2000	674	548	464	748	590	486
300	800	2000	860	786	590	860	778	626
300	1000	2000	1029	903	776	1049	909	841
425	400	2000	554	494	427	635	551	487
425	600	2000	806	720	591	832	776	656
425	800	2000	979	890	788	1017	911	826
425	1000	2000	1188	1054	938	1189	1085	945
600	400	2000	787	679	601	806	772	721
600	600	2000	953	894	851	1015	938	873
600	800	2000	1210	1087	996	1222	1152	1030
600	1000	2000	1365	1299	1154	1385	1303	1200
800	400	2000	861	831	846	944	900	861
800	600	2000	1126	1047	987	1177	1147	1054
800	800	2000	1316	1271	1173	1356	1294	1239
800	1000	2000	1491	1413	1356	1543	1442	1356
850	400	2000	898	867	845	997	949	906
850	600	2000	1184	1099	1034	1216	1180	1117
850	800	2000	1353	1307	1232	1401	1335	1278
850	1000	2000	1535	1453	1392	1598	1491	1400
1000	400	2000	944	908	882	1034	1028	976
1000	600	2000	1177	1154	1093	1231	1194	1159
1000	800	2000	1354	1304	1270	1424	1352	1291
1000	1000	2000	1546	1457	1392	1637	1518	1418
1100	600	2000	1237	1213	1199	1308	1265	1228
1100	800	2000	1427	1372	1333	1518	1439	1369
1100	1000	2000	1636	1537	1465	1756	1622	1510
1200	600	2000	1298	1272	1256	1387	1340	1298
1200	800	2000	1502	1442	1399	1619	1529	1452
1200	1000	2000	1732	1622	1542	1886	1734	1608
1350	600	2000	1394	1363	1344	1517	1462	1412
1350	800	2000	1624	1553	1502	1787	1679	1588
1350	1000	2000	1890	1762	1666	2111	1925	1772

Loss factors for horizontal separation panels:

Number of internal horizontal separation panels	0	1	2	3	
Loss factor of P_v		1	0.94	0.84	0.72

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **35°C**

Degree of prot. IP55			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	205	168	136	220	196	154
300	600	2000	320	260	221	355	280	231
300	800	2000	402	373	281	408	370	298
300	1000	2000	489	429	369	499	432	399
425	400	2000	263	235	202	301	262	232
425	600	2000	383	342	281	395	369	312
425	800	2000	465	423	375	483	433	393
425	1000	2000	565	514	468	594	540	492
600	400	2000	374	322	285	383	367	342
600	600	2000	453	425	404	483	446	415
600	800	2000	575	517	473	581	547	489
600	1000	2000	649	590	537	682	620	564
800	400	2000	424	410	398	466	444	424
800	600	2000	556	517	487	581	566	521
800	800	2000	649	627	579	669	638	612
800	1000	2000	736	670	610	773	704	641
850	400	2000	444	428	417	492	468	447
850	600	2000	585	542	510	600	582	551
850	800	2000	668	645	608	691	659	631
850	1000	2000	758	690	628	796	725	660
1000	400	2000	505	486	471	553	550	522
1000	600	2000	629	617	584	658	638	620
1000	800	2000	724	697	679	762	723	690
1000	1000	2000	826	751	683	868	789	718
1100	600	2000	662	648	641	699	676	656
1100	800	2000	763	733	713	812	769	732
1100	1000	2000	874	795	723	918	835	760
1200	600	2000	694	680	672	742	717	694
1200	800	2000	803	771	748	866	818	776
1200	1000	2000	926	842	766	973	885	805
1350	600	2000	746	729	719	811	781	755
1350	800	2000	868	830	803	955	898	849
1350	1000	2000	1010	919	836	1061	965	878

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **35°C**

Degree of prot. IP31			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	369	302	245	396	353	277
300	600	2000	576	468	398	639	504	416
300	800	2000	724	671	506	734	666	536
300	1000	2000	880	772	664	898	778	718
425	400	2000	473	423	364	542	472	418
425	600	2000	689	616	506	711	664	562
425	800	2000	837	761	675	869	779	707
425	1000	2000	1017	925	842	1069	972	886
600	400	2000	673	580	513	689	661	616
600	600	2000	815	765	727	869	803	747
600	800	2000	1035	931	851	1046	985	880
600	1000	2000	1168	1062	967	1228	1116	1015
800	400	2000	700	677	657	769	733	700
800	600	2000	917	853	804	959	934	860
800	800	2000	1071	1035	955	1104	1053	1010
800	1000	2000	1214	1106	1007	1275	1162	1058
850	400	2000	733	706	688	812	772	738
850	600	2000	965	894	842	990	960	909
850	800	2000	1102	1064	1003	1140	1087	1041
850	1000	2000	1251	1139	1036	1313	1196	1089
1000	400	2000	793	763	739	868	864	820
1000	600	2000	988	969	917	1033	1002	973
1000	800	2000	1137	1094	1066	1196	1135	1083
1000	1000	2000	1297	1179	1072	1363	1239	1127
1100	600	2000	1039	1017	1006	1097	1061	1030
1100	800	2000	1198	1151	1119	1275	1207	1149
1100	1000	2000	1372	1248	1135	1441	1311	1193
1200	600	2000	1041	1020	1008	1113	1076	1041
1200	800	2000	1205	1157	1122	1299	1227	1164
1200	1000	2000	1389	1263	1149	1460	1328	1208
1350	600	2000	1119	1094	1079	1217	1172	1133
1350	800	2000	1302	1245	1205	1433	1347	1274
1350	1000	2000	1515	1379	1254	1592	1448	1317

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **35°C**

Degree of prot. IP42			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	297	244	197	319	284	223
300	600	2000	464	377	320	515	406	335
300	800	2000	583	541	407	592	537	432
300	1000	2000	709	622	535	724	626	579
425	400	2000	381	341	293	436	380	336
425	600	2000	555	496	407	573	535	452
425	800	2000	674	613	544	700	628	570
425	1000	2000	819	745	679	861	783	713
600	400	2000	542	467	413	555	532	496
600	600	2000	657	616	586	700	647	602
600	800	2000	834	750	686	842	793	709
600	1000	2000	941	856	779	989	899	818
800	400	2000	594	574	557	652	622	594
800	600	2000	778	724	682	813	792	729
800	800	2000	909	878	811	937	893	857
800	1000	2000	1030	938	854	1082	986	897
850	400	2000	622	599	584	689	655	626
850	600	2000	819	759	714	840	815	771
850	800	2000	935	903	851	967	923	883
850	1000	2000	1061	966	879	1114	1015	924
1000	400	2000	657	632	612	719	715	679
1000	600	2000	818	802	759	855	829	806
1000	800	2000	941	906	883	991	940	897
1000	1000	2000	1074	976	888	1128	1026	933
1100	600	2000	861	842	833	909	879	853
1100	800	2000	992	953	927	1056	1000	952
1100	1000	2000	1136	1034	940	1193	1086	988
1200	600	2000	902	884	874	965	932	902
1200	800	2000	1044	1002	972	1126	1063	1009
1200	1000	2000	1204	1095	996	1265	1151	1047
1350	600	2000	970	948	935	1054	1015	982
1350	800	2000	1128	1079	1044	1242	1167	1104
1350	1000	2000	1313	1195	1087	1379	1255	1141

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **35°C**

Degree of prot. IP31 closed			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	287	235	190	308	274	216
300	600	2000	448	364	309	497	392	323
300	800	2000	563	522	393	571	518	417
300	1000	2000	685	601	517	699	605	559
425	400	2000	368	329	283	421	367	325
425	600	2000	536	479	393	553	517	437
425	800	2000	651	592	525	676	606	550
425	1000	2000	791	720	655	832	756	689
600	400	2000	524	451	399	536	514	479
600	600	2000	634	595	566	676	624	581
600	800	2000	805	724	662	813	766	685
600	1000	2000	909	826	752	955	868	790
800	400	2000	572	554	537	629	599	572
800	600	2000	751	698	657	784	764	703
800	800	2000	876	846	782	903	861	826
800	1000	2000	994	905	824	1044	950	865
850	400	2000	599	578	563	664	632	603
850	600	2000	790	732	689	810	786	744
850	800	2000	902	871	821	933	890	852
850	1000	2000	1023	932	848	1075	979	891
1000	400	2000	631	608	589	691	688	653
1000	600	2000	786	771	730	823	798	775
1000	800	2000	905	871	849	953	904	863
1000	1000	2000	1033	939	854	1085	986	898
1100	600	2000	828	810	801	874	845	820
1100	800	2000	954	916	891	1015	961	915
1100	1000	2000	1093	994	904	1148	1044	950
1200	600	2000	868	850	840	928	896	868
1200	800	2000	1004	964	935	1083	1023	970
1200	1000	2000	1158	1053	958	1216	1106	1006
1350	600	2000	933	911	899	1014	976	944
1350	800	2000	1085	1038	1004	1194	1123	1061
1350	1000	2000	1263	1149	1045	1326	1206	1098

xEnergy Switchboards

Power Loss

Max. power loss Pv in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **35°C**

Degree of prot. IP42 closed			Max. power loss Pv in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	277	227	184	297	265	208
300	600	2000	432	351	298	479	378	312
300	800	2000	543	504	379	551	500	402
300	1000	2000	660	579	498	674	583	539
425	400	2000	355	317	273	406	354	313
425	600	2000	517	462	379	533	498	421
425	800	2000	628	571	506	652	585	531
425	1000	2000	763	694	632	802	729	664
600	400	2000	505	435	385	517	495	462
600	600	2000	612	574	545	652	602	560
600	800	2000	776	698	639	784	738	660
600	1000	2000	876	797	725	921	837	761
800	400	2000	551	533	517	606	577	551
800	600	2000	723	672	633	755	736	677
800	800	2000	844	815	753	870	829	796
800	1000	2000	957	871	793	1005	915	833
850	400	2000	577	556	542	640	608	581
850	600	2000	761	705	663	780	757	716
850	800	2000	868	839	790	898	857	820
850	1000	2000	985	897	816	1035	943	858
1000	400	2000	606	583	565	664	660	626
1000	600	2000	755	740	701	790	766	744
1000	800	2000	869	836	815	914	868	828
1000	1000	2000	991	901	820	1042	947	862
1100	600	2000	794	778	769	839	811	787
1100	800	2000	916	880	856	974	923	878
1100	1000	2000	1049	954	868	1102	1002	912
1200	600	2000	833	816	806	890	860	833
1200	800	2000	964	925	898	1039	982	931
1200	1000	2000	1111	1010	919	1168	1062	966
1350	600	2000	895	875	863	973	937	906
1350	800	2000	1042	996	964	1146	1078	1019
1350	1000	2000	1212	1103	1003	1273	1158	1054

Loss factors for horizontal separation panels:

Number of internal horizontal separation panels	0	1	2	3	
Loss factor of Pv		1	0.94	0.84	0.72

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **50°C**

Degree of prot. IP55			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	102	84	67	110	98	77
300	600	2000	159	130	110	177	139	115
300	800	2000	200	186	140	203	184	148
300	1000	2000	243	214	184	248	215	199
425	400	2000	131	117	101	105	130	115
425	600	2000	191	170	140	197	184	155
425	800	2000	232	211	187	241	216	195
425	1000	2000	281	250	222	282	257	224
600	400	2000	186	160	142	191	183	170
600	600	2000	226	212	201	240	222	207
600	800	2000	286	257	236	289	272	244
600	1000	2000	323	308	273	328	308	284
800	400	2000	211	204	208	232	221	211
800	600	2000	277	257	243	289	282	259
800	800	2000	323	312	288	333	318	305
800	1000	2000	367	347	333	379	355	333
850	400	2000	221	213	208	254	233	223
850	600	2000	291	270	254	299	290	274
850	800	2000	333	321	303	344	328	314
850	1000	2000	378	357	342	393	367	344
1000	400	2000	252	242	235	275	274	260
1000	600	2000	313	308	291	328	318	309
1000	800	2000	361	347	338	379	360	344
1000	1000	2000	412	388	371	436	404	378
1100	600	2000	330	323	319	348	337	327
1100	800	2000	380	365	355	404	383	365
1100	1000	2000	436	410	390	468	432	402
1200	600	2000	346	339	335	370	357	346
1200	800	2000	400	384	373	431	407	387
1200	1000	2000	461	432	411	503	462	428
1350	600	2000	372	363	358	404	389	376
1350	800	2000	433	414	400	476	447	423
1350	1000	2000	504	469	444	562	513	472

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **50°C**

Degree of prot. IP31			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	184	151	121	198	176	139
300	600	2000	286	234	198	319	250	207
300	800	2000	360	335	252	365	331	266
300	1000	2000	437	385	331	446	387	358
425	400	2000	236	211	182	189	234	207
425	600	2000	344	306	252	355	331	279
425	800	2000	418	380	337	434	389	351
425	1000	2000	506	450	400	508	463	403
600	400	2000	335	288	256	344	329	306
600	600	2000	407	382	362	432	400	373
600	800	2000	515	463	425	520	490	439
600	1000	2000	581	554	491	590	554	511
800	400	2000	348	337	343	383	365	348
800	600	2000	457	424	401	477	465	427
800	800	2000	533	515	475	549	525	503
800	1000	2000	606	573	549	625	586	549
850	400	2000	365	351	343	419	384	368
850	600	2000	480	446	419	493	479	452
850	800	2000	549	530	500	568	541	518
850	1000	2000	624	589	564	648	606	568
1000	400	2000	396	380	369	432	430	408
1000	600	2000	491	484	457	515	499	485
1000	800	2000	567	545	531	595	565	540
1000	1000	2000	647	609	582	685	634	593
1100	600	2000	518	507	501	546	529	513
1100	800	2000	597	573	557	634	601	573
1100	1000	2000	685	644	612	735	678	631
1200	600	2000	519	509	503	555	536	519
1200	800	2000	600	576	560	647	611	581
1200	1000	2000	692	648	617	755	693	642
1350	600	2000	558	545	537	606	584	564
1350	800	2000	650	621	600	714	671	635
1350	1000	2000	756	704	666	843	770	708

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **50°C**

Degree of prot. IP42			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	148	122	97	160	142	112
300	600	2000	231	189	160	257	202	167
300	800	2000	290	270	203	294	267	215
300	1000	2000	352	310	267	360	312	289
425	400	2000	190	170	146	152	189	167
425	600	2000	277	247	203	286	267	225
425	800	2000	336	306	271	349	313	283
425	1000	2000	407	363	322	409	373	325
600	400	2000	270	232	206	277	265	247
600	600	2000	328	307	291	348	322	300
600	800	2000	415	373	342	419	394	354
600	1000	2000	468	447	396	476	447	412
800	400	2000	295	286	291	325	309	295
800	600	2000	388	360	340	405	395	363
800	800	2000	452	437	403	466	445	427
800	1000	2000	514	486	466	531	497	466
850	400	2000	309	298	291	356	326	312
850	600	2000	407	378	356	419	406	384
850	800	2000	466	449	424	482	459	440
850	1000	2000	529	500	479	550	514	482
1000	400	2000	328	315	306	358	356	338
1000	600	2000	407	400	378	426	413	402
1000	800	2000	469	451	439	493	468	447
1000	1000	2000	536	504	482	567	525	491
1100	600	2000	429	420	415	452	438	425
1100	800	2000	494	475	462	525	498	475
1100	1000	2000	567	533	507	608	562	523
1200	600	2000	450	441	436	481	464	450
1200	800	2000	520	499	485	560	529	503
1200	1000	2000	599	562	534	654	601	556
1350	600	2000	484	472	465	525	506	489
1350	800	2000	563	538	520	619	581	550
1350	1000	2000	655	610	577	731	667	614

xEnergy Switchboards

Power Loss

Max. power loss P_v in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **50°C**

Degree of prot. IP31 closed			Max. power loss P_v in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	143	118	94	154	137	108
300	600	2000	223	182	154	248	195	161
300	800	2000	280	260	196	284	258	207
300	1000	2000	340	300	258	347	301	279
425	400	2000	183	164	141	147	182	161
425	600	2000	267	238	196	276	258	217
425	800	2000	325	295	262	337	302	273
425	1000	2000	393	350	311	395	360	314
600	400	2000	260	224	199	267	256	238
600	600	2000	316	297	281	336	311	290
600	800	2000	400	360	330	405	381	342
600	1000	2000	452	431	382	459	431	398
800	400	2000	285	275	281	313	298	285
800	600	2000	374	347	328	390	381	350
800	800	2000	436	421	389	450	429	412
800	1000	2000	495	468	450	512	479	450
850	400	2000	298	288	281	343	315	301
850	600	2000	393	365	343	404	392	370
850	800	2000	450	433	409	464	443	424
850	1000	2000	510	482	462	531	495	464
1000	400	2000	315	303	294	344	343	325
1000	600	2000	391	385	364	410	398	386
1000	800	2000	451	434	423	474	450	430
1000	1000	2000	515	485	464	545	505	473
1100	600	2000	413	404	399	435	421	409
1100	800	2000	475	456	444	505	479	456
1100	1000	2000	545	513	488	585	540	503
1200	600	2000	433	424	419	463	446	433
1200	800	2000	500	480	466	539	509	484
1200	1000	2000	576	540	514	629	578	535
1350	600	2000	465	454	448	505	486	470
1350	800	2000	541	518	500	595	559	529
1350	1000	2000	630	586	555	703	641	590

xEnergy Switchboards

Power Loss

Max. power loss Pv in W that can be installed, depending on the size of the enclosure and taking into account the set-up type

Calculation according to EN60890

No horizontal partitions

Ambient temperature: **50°C**

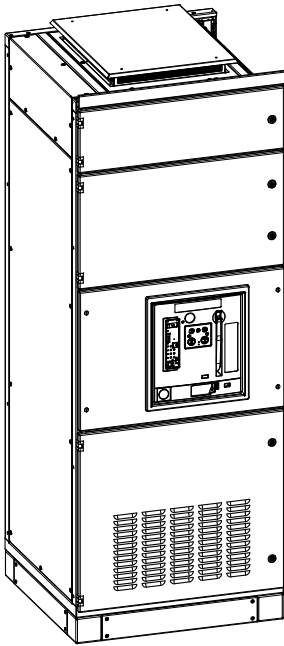
Degree of prot. IP42 closed			Max. power loss Pv in Watt					
Dimensions in mm			For wall-moun- ted enclosure	End enclos.	Center enclos.	Stand-alone enclosure	End enclosure	Center enclos.
W	D	H						
300	400	2000	138	113	90	149	132	104
300	600	2000	215	176	149	239	188	155
300	800	2000	270	251	189	274	248	200
300	1000	2000	328	289	248	335	290	269
425	400	2000	177	158	136	142	176	155
425	600	2000	258	230	189	266	248	209
425	800	2000	313	285	252	325	292	263
425	1000	2000	379	338	300	381	347	302
600	400	2000	251	216	192	258	247	230
600	600	2000	305	286	271	324	300	279
600	800	2000	386	347	319	390	367	329
600	1000	2000	436	416	369	443	416	383
800	400	2000	274	265	270	302	287	274
800	600	2000	360	334	316	376	367	337
800	800	2000	420	406	374	433	413	397
800	1000	2000	477	451	433	493	462	433
850	400	2000	287	277	270	330	303	290
850	600	2000	378	351	330	389	377	356
850	800	2000	433	417	394	447	426	408
850	1000	2000	491	464	445	511	477	447
1000	400	2000	302	290	282	330	329	312
1000	600	2000	376	370	349	394	382	371
1000	800	2000	433	416	406	455	432	413
1000	1000	2000	494	466	445	523	485	454
1100	600	2000	396	388	383	418	404	392
1100	800	2000	456	438	426	485	460	438
1100	1000	2000	523	492	468	562	518	482
1200	600	2000	415	407	402	444	428	415
1200	800	2000	480	461	448	517	488	464
1200	1000	2000	553	518	493	604	554	514
1350	600	2000	446	436	430	485	467	451
1350	800	2000	520	497	480	571	536	508
1350	1000	2000	605	563	533	674	616	566

Loss factors for horizontal separation panels:

Number of internal horizontal separation panels	0	1	2	3	
Loss factor of Pv		1	0.94	0.84	0.72

xEnergy Switchboards

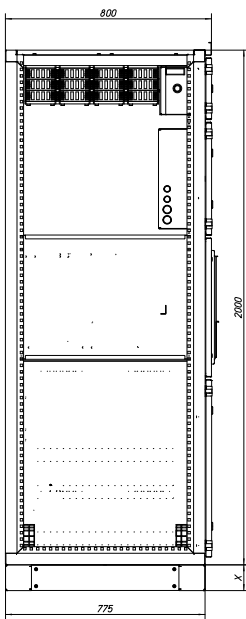
XP Power Sections for single ACBs of the IZMX16/40 series from 630 to 4000A



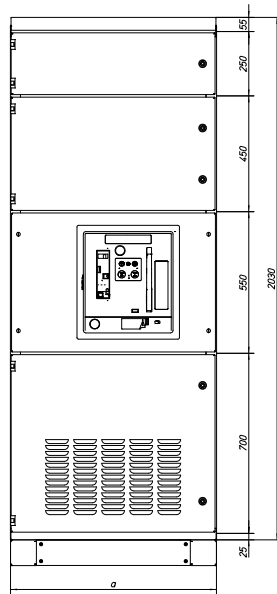
XP_single_Katalog_2a

For air circuit breakers IZMX16/40:

- in withdrawable design
- in fixed design
- as 3-pole, 4-pole or 3P+N version
- thanks to a switch they can be realised as incoming, outgoing or coupler sections
- optimal conditions for energy/transformer measurements
- transformer straps integrated in the copper



XP_single_Katalog_1

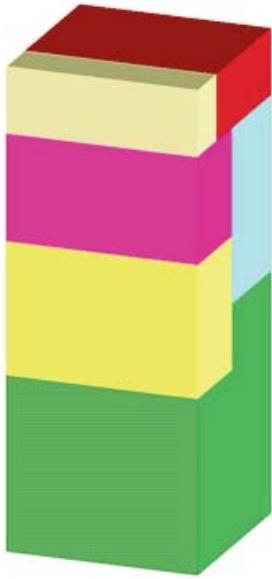


Dimensions

- Section depth: 800mm
- In addition, you can add a cable guidance cabinet at the back of the XP section
- Section width (a): 425, 600, 800, 1000mm
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

xEnergy Switchboards

XP Power Sections for single ACBs of the IZMX16/40 series from 630 to 4000A



XP single IZMX40
 Yellow: Switchgear area - ACB
 Green: Connection area
 Ochre: Metering compartment
 Red: Busbar area - top
 Magenta: Switchgear area
 Cyan: Connection ACB - BBT

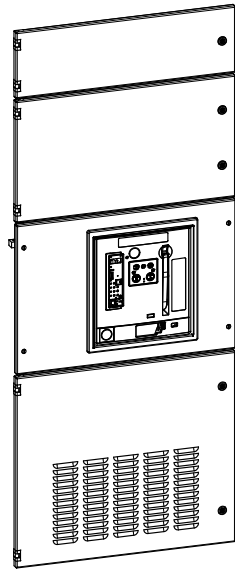
XP_Funktionsraeume

Main busbar

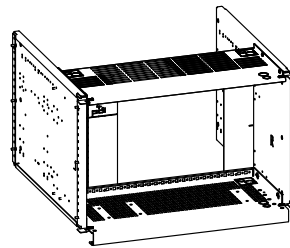
- Positions possible: Top
- From 1x30/10 up to max 12x30/10 Cu

Layout and internal separation up to Form 4/Type 7

- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- You can either use a snap-on cover or a module door for the switch
- Separate measuring module of H = 450mm, either tiltable or fixed
- Separate wiring module of H = 250mm, can optionally be replaced by a partition panel
- The wiring module can be equipped with a cable duct for crosswiring
- Cable connection area can easily be reached from the front and the back
- All doors are equipped with a locking handle and a 3mm two-way key-bit lock



XP_single_Katalog_2b

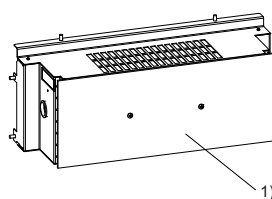
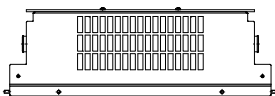
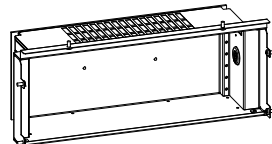
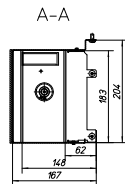
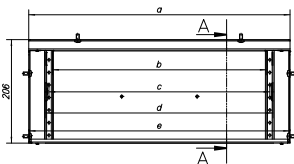


Wiring module

- With the main busbar mounted at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar.

Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring / cross-wiring of the system. The cable duct itself is made of plastic-coated metal.

Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.



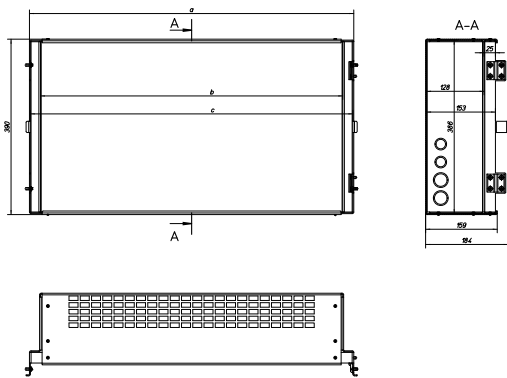
1) Additional insulating partition at the rear

XP_AUX_Compartment

	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

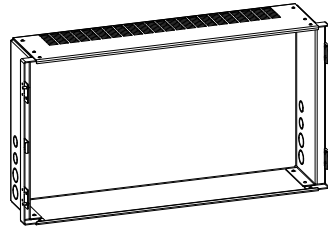
xEnergy Switchboards

XP Sections for single ACBs of the IZMX16/40 series from 630 to 4000A



	a	b	c
W425	346	297	342
W600	521	472	517
W800	721	672	717

XP_Messmodul



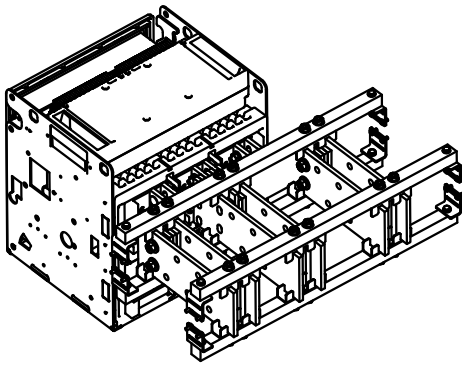
Measuring module

The measuring module is mounted directly above the circuit breaker. Where necessary, the module can be equipped with DIN rails, larger devices and meters can directly be fixed at the rear panel of the module. Optionally, the module can either be installed in a fixed way or it can be fixed in the cabinet using the hinges included in the mounting kit. Using the hinges provides optimal access to the measuring transformers placed behind the module in case of inspections or whenever else access is required.

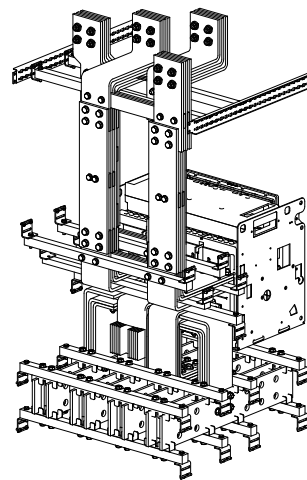
Pre-punched areas that can be used for control wiring will make it easier to do the jobs when mounting the system.

Cable connection

Cable connection is done in a cost-saving way, directly at flat copper rails horizontally placed in the cabinet, which optionally run from the back of the switch to the rear panel of the cabinet. If more space is required for connection cables, connecting rails can be run under the switch, so the entire section depth of the cabinet will be available. If this is still not sufficient, there is a possibility to add an extra section at the rear and to run the rail connection system across both sections.



XP_stacked_Katalog_3



XP_single_Katalog_3

xEnergy Switchboards

Planning Notes Power Loss IZMX16, IZMX40

IZMX16	In	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	in A			
	630	B = Basic	36	50
	800	B = Basic	59	80
	1000	B = Basic	92	125
	1200	B = Basic	132	180
	1600	B = Basic	235	320
	630	N = Normal	36	50
	800	N = Normal	59	80
	1000	N = Normal	92	125
	1200	N = Normal	132	180
	1600	N = Normal	235	320
	630	H = High	36	50
	800	H = High	59	80
	1000	H = High	92	125
	1200	H = High	132	180
	1600	H = High	235	320
IZMX40		Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	in A			
	800	B = Basic	90	135
	1000	B = Basic	135	120
	1200	B = Basic	135	180
	1600	B = Basic	225	300
	2000	B = Basic	285	345
	2500	B = Basic	300	450
	3200	B = Basic	480	720
	4000	B = Basic	750	1120
	800	N = Normal	90	135
	1000	N = Normal	90	120
	1200	N = Normal	135	180
	1600	N = Normal	225	300
	2000	N = Normal	285	345
	2500	N = Normal	300	450
	3200	N = Normal	480	720
	4000	N = Normal	750	1120
	800	H = High	90	135
	1000	H = High	90	120
	1200	H = High	135	180
	1600	H = High	225	300
	2000	H = High	285	345
	2500	H = High	300	450
	3200	H = High	480	720
	4000	H = High	750	1120

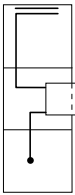
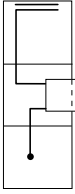
xEnergy Switchboards

Short-Circuit Strength for Circuit Breakers/Switchgear

Circuit breaker	Installation type	I _e up to A	Category Breaking capacity / Additional equipment	Short-circuit strength at 400 V AC		
				I _{cc} kA	I _{cw} kA (1 s)	I _{cu} kA (only for switchgear)
IZMX16			B	65	42	42
			N	65	42	50
			H	65	42	65
IZMX40	Fixed, with- drawable	800	B	66	66	66
			N	85	85	85
			H	105	85	105
		1000	B	66	66	66
			N	85	85	85
			H	105	85	105
		1200	B	66	66	66
			N	85	85	85
			H	105	85	105
		1600	B	66	66	66
			N	85	85	85
			H	105	85	105
		2000	B	66	66	66
			N	85	85	85
			H	105	85	105
		2500	B	66	66	66
			N	85	85	85
			H	105	85	105
		3200	B	66	66	66
			N	85	85	85
			H	105	85	105
		4000	B	66	85	85
			N	85	85	85
			H	105	85	105

xEnergy Switchboards

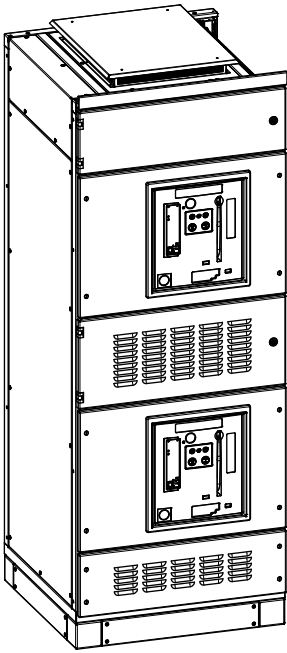
Current Load for Circuit Breaker IZMX16/40, carried out as Single Solution

Configuration	Circuit breaker	Installation type	I _e up to	Degree of protection	Permitted continuous current I depending on ambient temperature and degree of protection of the distribution sections					
					25°C	35°C	50°C			
			A		A	A	A			
 00122507_0	IZMX16	Fixed, Drawer u.	1000	IP31 with protect. top cover XAD...	1000	1000	689/896 ¹			
				IP42 with protect. top cover XAD...	1000	983	862			
			1250	IP55	920	865	828			
				IP31 with protect. top cover XAD...	1250	1250	931/1210 ¹			
			1600	IP42 with protect. top cover XAD...	1250	1250	1164			
				IP55	1240	1168	1117			
			1600	IP31 with protect. top cover XAD...	1600	1550	1000/1370 ¹			
				IP42 with protect. top cover XAD...	1600	1530	1280			
			 00122507_0	IZMX40	Fixed, Drawer u.	1600	IP55	1420	1342	1200
							IP31 with protect. top cover XAD...	1600	1600	1600
2000	IP42 with protect. top cover XAD...	1600				1600	1600			
	IP55	1600				1600	1600			
2000	IP31 with protect. top cover XAD...	2000				2000	2000			
	IP42 with protect. top cover XAD...	2000				2000	2000			
2500	IP55	2000				2000	2000			
	IP31 with protect. top cover XAD...	2500				2400	2150			
3200	IP42 with protect. top cover XAD...	2440				2300	2060			
	IP55	2100				1980	1750			
3200	IP31 with protect. top cover XAD...	3060				2888	2520			
	IP42 with protect. top cover XAD...	2930				2760	2420			
4000	IP55	2480				2340	1950			
	IP31 with protect. top cover XAD...	3870				3650	3250			
	IP42 with protect. top cover XAD...	3710/3830 ²				3500/3610 ²	3116/3214 ²			
	IP55	2860 ²				2700 ²	2400 ²			

¹ = with ACB plastic cover
² = with cooling element

xEnergy Switchboards

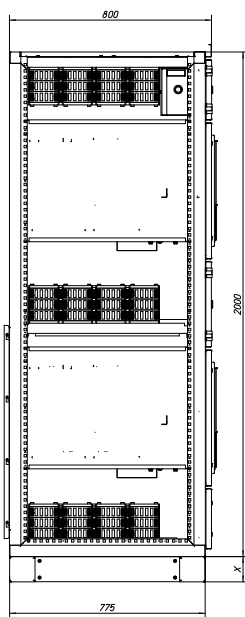
XP Power Sections with 2x IZMX40 carried out as Stacked ACB Solution



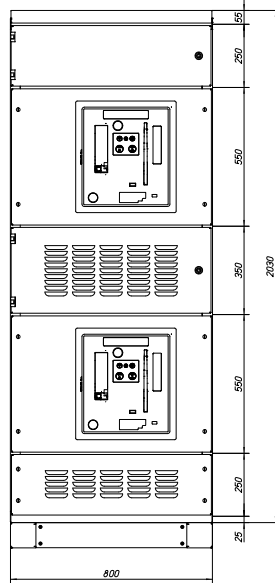
XP_stacked_Katalog_2a

For air circuit breaker IZMX 40:

- in withdrawable design
- in fixed design
- as 3-pole, 4-pole or 3P+N version
thanks to a switch they can be realised as incoming, outgoing or coupler sections
- with up to 3 main busbars per cabinet



XP_stacked_Katalog_1



Dimensions

- Section depth: 800mm
In addition, you can add a cable guidance cabinet at the back of the XP section.
- Section width: 800mm (3-pole), 1000mm (3-pole, 4-pole, 3P+N)
- Section height: 2000mm, optionally with a plinth of (x) 100 or 200mm



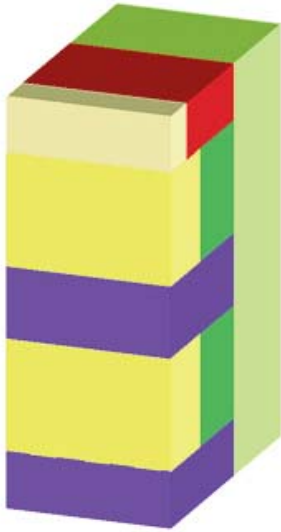
Stacked_Cu_Schematik_1

Main busbar

- Positions possible: top, center, bottom
- From 1x30/10 up to max 12x30/10 Cu

xEnergy Switchboards

XP Power Sections with 2x IZMX40 designed as Stacked ACB Solution

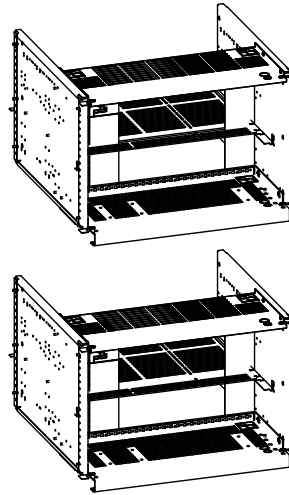
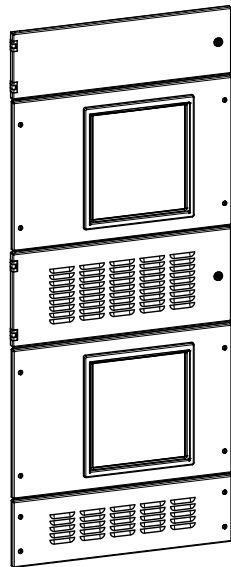


Functional areas XP Stacked
 Yellow: Switchgear area ACB
 Green: Connection area
 Ochre: Metering compartment
 Red: Busbar area at the top
 Blue: Busbar at the center or bottom

XP_Funktionsraeume_stacked

Layout and internal separation up to Form 4/Type7

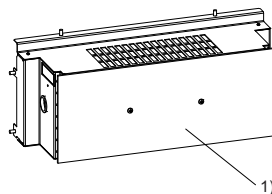
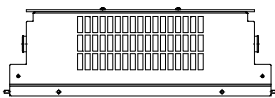
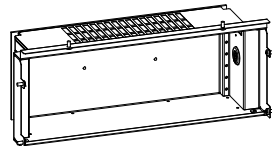
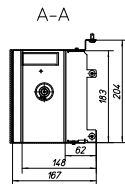
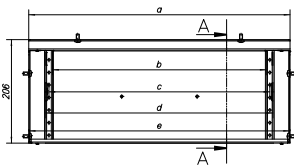
- Ready-to-install partition panels for section equipment up to Form 4/Type 7
- Clear division of functional areas
- Operation of the switch from outside
- You can either use a snap-on cover or a module door for the switches
- Wiring module with H = 250mm in front of the main busbars at the top or bottom, optionally it can be replaced by a partition panel
- The wiring module can be equipped with a cable duct for crosswiring
- All doors are equipped with a locking handle and a 3mm two-way key-bit lock



XP_stacked_Katalog_2b

Wiring module

- With the main busbar at the top or bottom - depending on the application - the wiring module can be mounted in front of the main busbar. Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring / cross-wiring of the system. The cable duct itself is made of plastic-coated metal. Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.



	a	b	c	d	e
W425	345	250	265	277	343
W600	520	425	440	452	518
W800	720	625	640	652	718
W1000	920	825	840	852	918
W1100	1020	925	940	952	1018
W1200	1120	1025	1040	1052	1118
W1350	1270	1175	1190	1202	1268

XP_AUX_Compartment

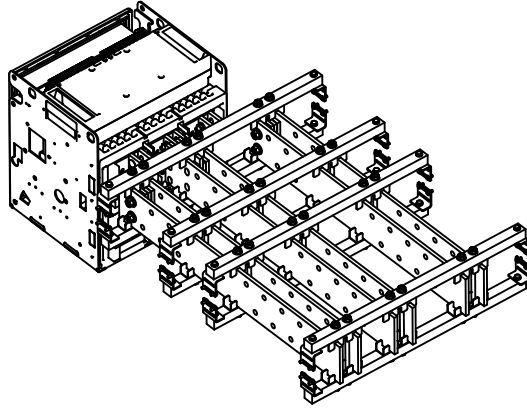
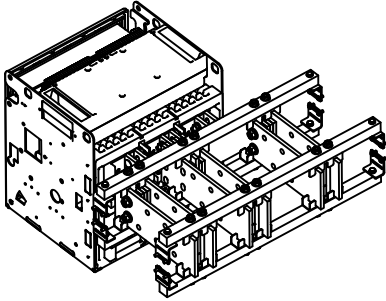
1) Additional insulating partition at the rear

xEnergy Switchboards

XP Power Sections with 2x IZMX40 designed as Stacked ACB Solution

Cable connection

- Cable connection is done in a cost-saving way, directly at flat copper rails horizontally placed in the cabinet, which optionally run from the back of the switch to the rear panel of the cabinet. Connection cables run in the cable connection section which must always be installed when a Stacked ACBs solution is used. Should the Cu connection system not provide sufficient space to accommodate all connection cables of the connection system, it is possible to run the bar connection system across both sections and to increase the connection area that way.



XP_stacked_Katalog_3

xEnergy Switchboards

Planning Notes Power Loss IZMX16, IZMX40

IZMX16	In	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
		in A		
	630	B = Basic	36	50
	800	B = Basic	59	80
	1000	B = Basic	92	125
	1200	B = Basic	132	180
	1600	B = Basic	235	320
	630	N = Normal	36	50
	800	N = Normal	59	80
	1000	N = Normal	92	125
	1200	N = Normal	132	180
	1600	N = Normal	235	320
	630	H = High	36	50
	800	H = High	59	80
	1000	H = High	92	125
	1200	H = High	132	180
	1600	H = High	235	320
IZMX40	in A	Breaking capacity	Power loss at In when fixed in W	Power loss at In when withdrawable in W
	800	B = Basic	90	135
	1000	B = Basic	135	120
	1200	B = Basic	135	180
	1600	B = Basic	225	300
	2000	B = Basic	285	345
	2500	B = Basic	300	450
	3200	B = Basic	480	720
	4000	B = Basic	750	1120
	800	N = Normal	90	135
	1000	N = Normal	90	120
	1200	N = Normal	135	180
	1600	N = Normal	225	300
	2000	N = Normal	285	345
	2500	N = Normal	300	450
	3200	N = Normal	480	720
	4000	N = Normal	750	1120
	800	H = High	90	135
	1000	H = High	90	120
	1200	H = High	135	180
	1600	H = High	225	300
	2000	H = High	285	345
	2500	H = High	300	450
	3200	H = High	480	720
	4000	H = High	750	1120

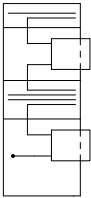
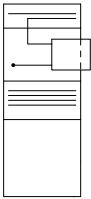
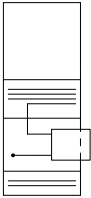
xEnergy Switchboards

Short-Circuit Strength for Circuit Breakers/Switchgear

Circuit breaker	Installation type	I _e up to A	Category Breaking capacity/ additional equipment	Short-circuit strength at 400 V AC		
				I _{cc} kA	I _{cw} kA (1 s)	I _{cu} kA (only for switchgear)
IZM...1-..	Fixed, Drawer u.	1600	B	50	42	50
			N	65	50	65
IZM...2-..	Fixed, Drawer u.	3200	B	55	55	55
			N	80	65	80
			H	80	80	100
IZM...3-..	Fixed, Drawer u.	4000	H	80	80	100
IZMX16			B	65	42	42
			N	65	42	50
			H	65	42	65
IZMX40	Fixed, Withdrawabl	800	B	66	66	66
			N	85	85	85
			H	-	-	-
		1000	B	66	66	66
			N	85	85	85
			H	-	-	-
		1200	B	66	66	66
			N	85	85	85
			H	-	-	-
		1600	B	66	66	66
			N	85	85	85
			H	-	-	-
		2000	B	66	66	66
			N	85	85	85
			H	-	-	-
		2500	B	66	66	66
			N	85	85	85
			H	-	-	-
		3200	B	66	66	66
			N	85	85	85
			H	-	-	-
		4000	B	66	85	85
			N	85	85	85
			H	-	-	-
IZM20			B	65	50	50
			N	65	65	65
			H	-	-	-
IZM32			B	100	65	65
			N	100	85	85
			H	100	85	100
IZM40			N	100	85	85
			H	100	100	100
IZM5			B	65	50	50
			N	65	50	65
			H	-	-	-
IZM6			B	80	55	55
			N	80	65	80
			H	80	-	100
IZM7			B	-	-	-
			N	80	65	80
			H	80	70	100
NZM 4	Fixed, Drawer u.	1600	N	50	-	50
PKZM0	Fixed	10	H	100	-	100
		32	-	50	-	50
PKZM4	Fixed	25	CL-PKZ0	100	-	100
		63	-	100	-	100
			-	50	-	50

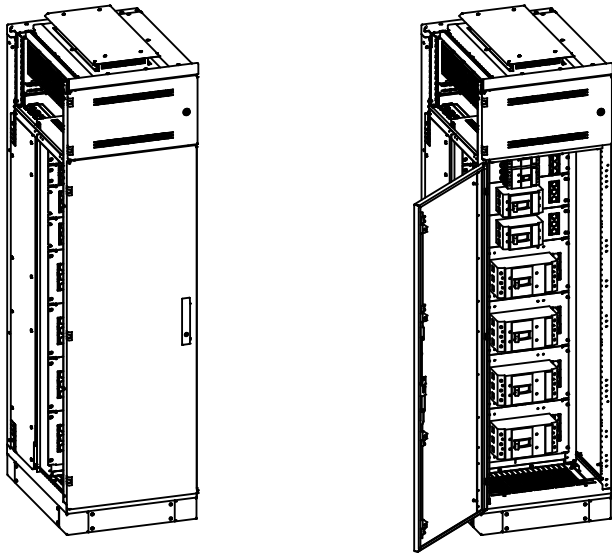
xEnergy Switchboards

Current Load for Circuit breakers IZMX16/40, designed as Stacked Solution

Configuration	Circuit breaker	Installation type	I_e up to A	Degree of protection rent I depending on am-	Permitted continuous current temperature and degree of protection of the distribution sections		
					25°C A	35°C A	50°C A
Ausführung: Stacked ACB mit beiden Schaltern							
	IZMX40 (top)	Fixed, Drawer u.	4000	IP31 with protect. top cover XAD...	3070	2900	2693
				IP42 with protect. top cover XAD...	3070	2900	2582
				IP55	2540	2400	1989
	IZMX40 (bott)	Fixed, Drawer u.	4000	IP31 with protect. top cover XAD...	2970	2800	2600
				IP42 with protect. top cover XAD...	2970	2800	2493
				IP55	2440	2300	1920
Ausführung: Stacked ACB mit nur einem Schalter oben							
	IZMX40 (top)	Fixed, Drawer u.	4000	IP31 with protect. top cover XAD...	3390	3200	2971
				IP42 with protect. top cover XAD...	3390	3200	2849
				IP55	2620	2469	2194
Ausführung: Stacked ACB mit nur einem Schalter unten							
	IZMX40(bott)	Fixed, Drawer u.	4000	IP31 with protect. top cover XAD...	3390	3200	2971
				IP42 with protect. top cover XAD...	3390	3200	2849
				IP55	2620	2469	2194

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 2



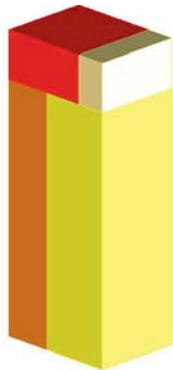
XF_Uebersicht

Description of the sections

- Section width 600mm, with an additional cable connection area at the side for section widths of 800/1000mm
- For compact circuit breakers of the NZM 1-3 series in 3-pole, 4-pole and 3P+N version
- In horizontal mounting position
- Wiring module of H = 325mm in front of the main busbar, can optionally be replaced by a partition panel
- internal separation up to Form 2
- On the incoming side, connection is done on a vertically arranged dropper bar system (see instructions). In the rear area of the cabinet, the system of bars is aligned in parallel with the side panel. The dropper bar system is covered with panels and therefore shock-proof.
- With a door across the entire switchgear area; if a cable connection area is installed at the side, it will also be covered with the same door (switchgear area and cable connection area).
- Operation of the switchgear optionally behind the door or from outside with an extension shaft and a rotary door coupling handle.
- Can be configured with an additional cable connection area at the side (in width 800 or 1000mm)
- Even with a cable connection area at the side, there is only one shared wiring module



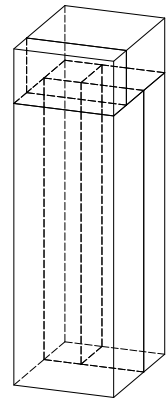
XF_Funktionsraume_BBT_a



Internal separation/Layout of functional areas in section width of 600mm

Functional XF areas left
W600

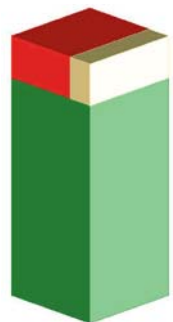
- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar



XF_Funktionsraume_BBT_b



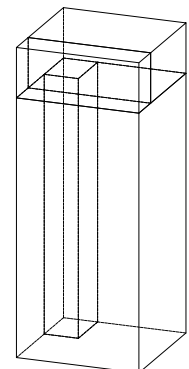
XF_Funktionsraume_2b_a



Internal separation/Layout of functional areas in section width of 800mm

Functional XF areas 2b left
W800

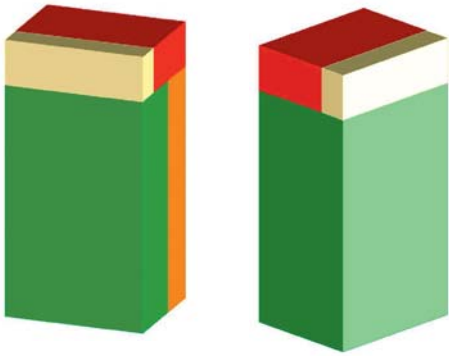
- Yellow: Switchgear and cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar



XF_Funktionsraume_2b_b

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 2

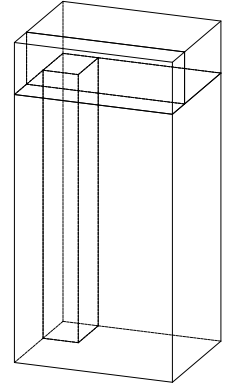


XF_Funktionsraume_2b_1000_a

Internal separation/Layout of functional areas in section width of 1000mm

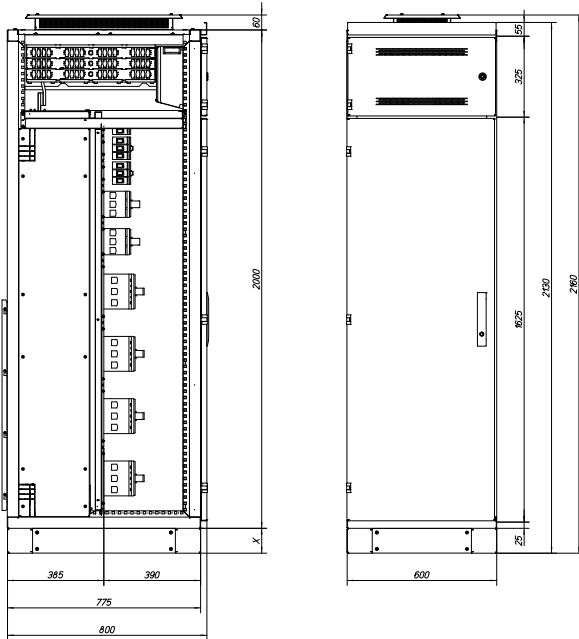
Functional XF areas 2b left
W1000

- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar



XF_Funktionsraume_2b_1000_b

W600



XF_2b_Katalog_1_W600

Dimensions

- Section width: 600mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 390mm
- All modules are arranged on the same level
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter.
- A separation of functional areas (switchgear area/cable connection area) for structural reasons only exists for a cabinet width of 600mm

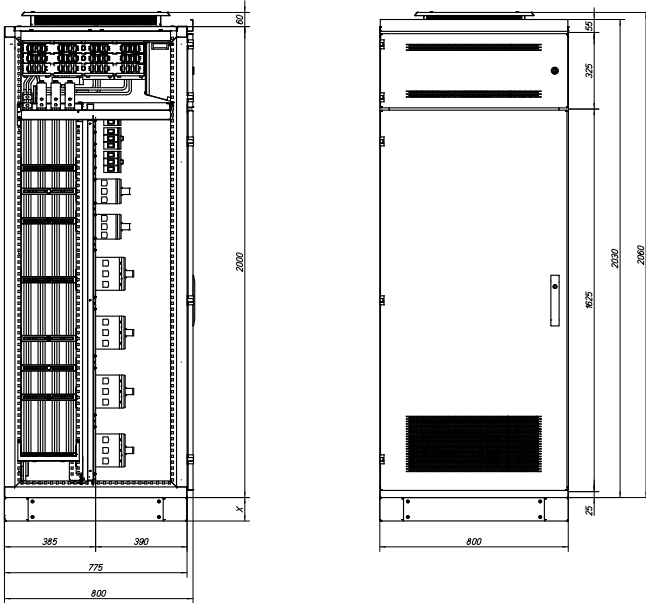
Cable connection area at the rear

- Width = 370mm
- Depth = 385mm
- Cable connection is done at the rear of the system and can be carried out in different ways:
 - With connection at the rear (accessories of NZM circuit breakers); for insulating the rear connection contacts you can use different grommets, shrink sleeves etc.
 - Additional terminal points at the rear of the mounting plate are provided for (e.g. with K150 terminals or terminal blocks, depending in the strength and cross-section of the connection cables) to connect the outgoing cables
 - A separation of functional areas (switchgear area/cable connection area) only exists for a cabinet width of 600mm and is due to structural reasons of the mounting plate

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 2

W800



XF_2b_W800

Dimensions

- Section width: 800mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

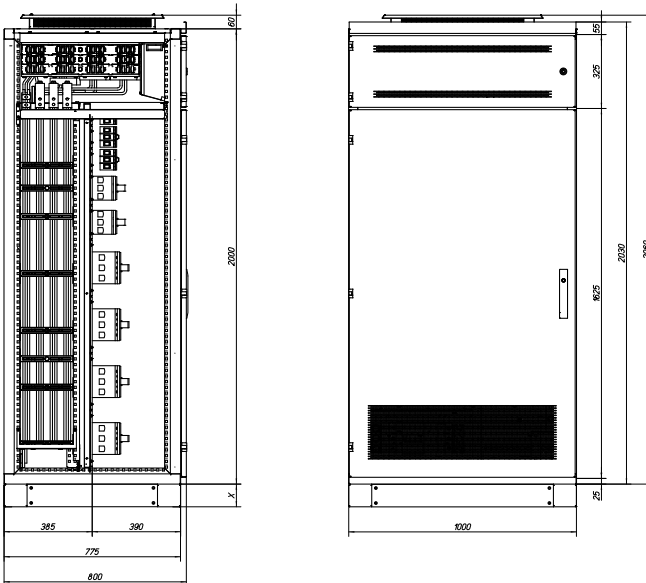
Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 445mm
- All modules are arranged on the same level
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter.
- No separation of the functional areas switchgear area/cable connection area

Cable connection area at the rear

- Width = 370mm
- Depth = 385mm
- No separation of the functional areas switchgear area/cable connection area
- Cable connection is done at the rear of the system and can be carried out in different ways:
 - With connection at the rear (accessories of NZM circuit breakers), for insulating the rear connection contacts you can use different grommets, shrink sleeves etc.
 - Additional terminal points at the rear of the mounting plate are provided for (e.g. with K150 terminals or terminal blocks, depending on the strength and cross-section of the connection cables) to connect the outgoing cables
 - Connection cables can directly be connected to the terminals of the switchgear, there is no additional terminal necessary

W1000



XF_2b_W1000

Dimensions

- Section width: 1000mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 445mm
- All modules are arranged on the same level
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter.
- No separation of the functional areas switchgear area/cable connection area

Cable connection area

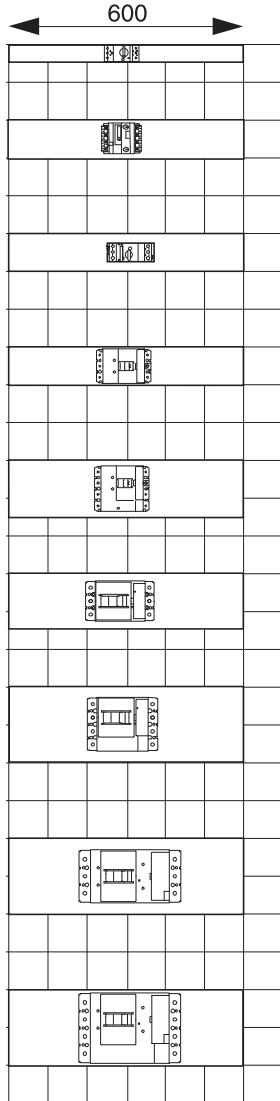
- Width = 570mm
- Depth = 385mm
- No separation of the functional areas switchgear area/cable connection area
- Cable connection is done at the rear of the system and can be carried out in different ways:
 - With connection at the rear (accessories of NZM circuit breakers), for insulating the rear connection contacts you can use different grommets, shrink sleeves etc.
 - Additional terminal points at the rear of the mounting plate are provided for (e.g. with K150 terminals or terminal blocks, depending on the strength and cross-section of the connection cables) to connect the outgoing cables
 - Connection cables can directly be connected to the terminals of the switchgear, there is no additional terminal necessary

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 2

XF Outgoing Sections (fixed design) - module heights and equipment: Installation of switchgear in a horizontal way only

Module width



Motor protective switch up to **32 A**
Type PKZM0, 2 U = 50 mm

Motor protective switch up to **40 A**

Motor protective switch up to **63 A**
Type PKZM4, 4 U = 100 mm

Circuit breaker up to **160 A, 3-pole**
Type NZM1, 4 U = 100 mm

Circuit breaker up to **160 A, 4-pole**
Type NZM1, 6 U = 150 mm

Circuit breaker up to **300 A, 3-pole**
Type NZM2, 6 U = 150 mm

Circuit breaker up to **300 A, 4-pole**
Type NZM2, 8 U = 200 mm

Circuit breaker up to **630 A, 3-pole**
Type NZM3, 8 U = 200 mm

Circuit breaker up to **630 A, 4-pole**
Type NZM3, 10 U = 250 mm

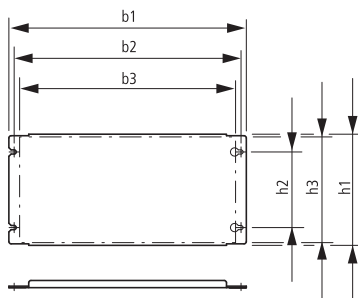
Modules

- Mounting plates - width = 600mm
- Mounting plates prepared for NZM series
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter.

RK4810-1143d_13_13_1A4

General mounting plates

General mounting plates are available from H = 50mm up to H = 1200mm

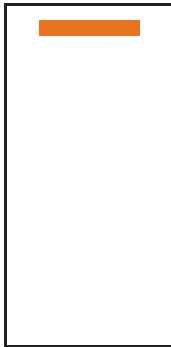


00163815_0

Type	h1	b1	h2	b2	h3	b3
XME0206M	47	489	25	475	40	458
XME0406M	97	489	50	475	90	458
XME0606M	147	489	100	475	140	458
XME0806M	197	489	150	475	190	458
XME1006M	247	489	200	475	240	458
XME1206M	297	489	250	475	290	458
XME1406M	347	489	300	475	340	458
XME1606M	397	489	250	475	390	458
XME2006M	497	489	450	475	490	458
XME2406M	597	489	550	475	590	458
XME3206M	797	489	750	475	790	458
XME3806M	947	489	900	475	940	458
XME4006M	997	489	950	475	990	458
XME4806M	1197	489	1150	475	1190	458

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 2



Stacked_Cu_Schematik_2

Main busbar

- Position possible: top
- From 1x30/10 up to max 12x30/10 Cu

Max. current load and power loss for dropper bars in an XF section

Dropper bar:

Center-to-center distance between phases = 60mm

Rated current I_n = up to 2000A

Rated short-time withstand current I_{cw} = up to 80kA

Ie	Busbar cross-section	Degree of protection	Permitted continuous current I depending on ambient temperature and degree of protection of the distribution section			Power loss		
			25°C A	35°C A	50°C A	25°C W/m	35°C W/m	50°C W/m
1600	2x40x10	IP31	1730	1600	1400	98	84	64
		IP42	1730	1600	1400	98	84	64
		IP55	1480	1450	1250	72	69	51
2000	2x60x10	IP31	2100	2000	1850	102	92	79
		IP42	1930	1900	1850	86	83	79
		IP55	1650	1650	1600	63	63	59

Short-circuit strength for dropper bars in an XF section

Ie	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center
A		kA	mm
1600	2x40x10	35/1s	375
		50/1s	275
		65/1s	250
2000	2x60x10	35/1s	375
		50/1s	275
		65/1s	250
		80/1s	200
		50/3s	200

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 2

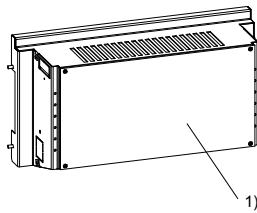
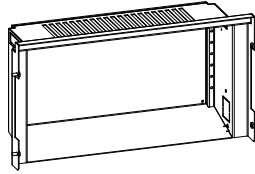
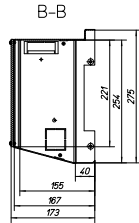
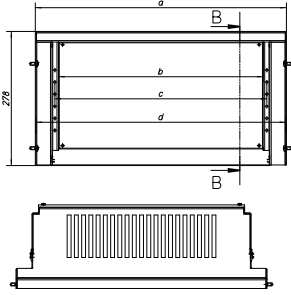
Wiring module

- The wiring module is mounted in front of the main busbar.

Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring / cross-wiring of the system. The cable duct itself is made of plastic-coated metal.

Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

The rear of the module is planked with an additional insulating partition of 3mm (see fig. 1).



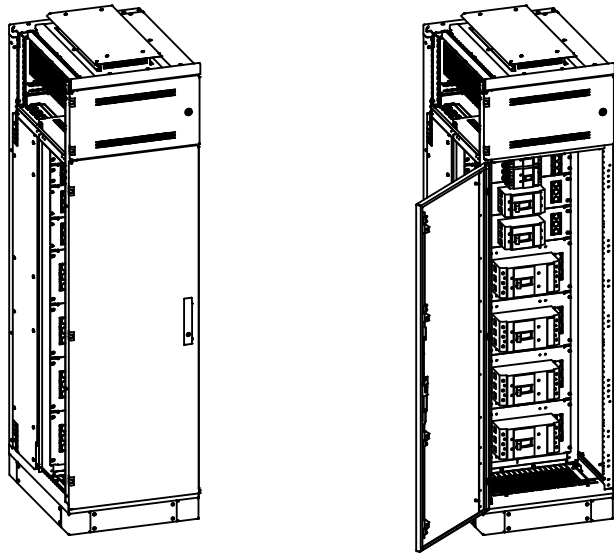
1) Additional insulating partition at the rear

	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717
W1000	920	824	839	817

Metering_compartment_RearAccess_ASSEM_H250

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 4 / up to Type 7



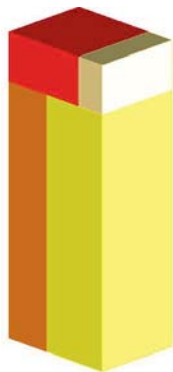
XF_Uebersicht

Description of the sections

- Section width 600mm, with an additional cable connection area at the side for section widths of 800/1000mm
- For compact circuit breakers of the NZM 1-3 series in 3-pole, 4-pole and 3P+N version
- In horizontal mounting position
- Wiring module of H = 325mm in front of the main busbar, can optionally be replaced by a partition panel
- Internal separation up to Form 4 / up to Type 7
- On the incoming side, connection is done on a vertically arranged dropper bar system (see instructions). In the rear area of the cabinet, the system of bars is aligned in parallel with the side panel. The dropper bar system is covered with panels and therefore shock-proof.
- With a separate door across the entire switchgear area; if a cable connection area is installed at the side, it will be closed with a separate door.
- Operation of the switchgear behind the door. Door to switchgear area optionally also available in glass
- Can be configured with an additional cable connection area at the side
- Even with a cable connection area at the side, there is only one shared wiring module



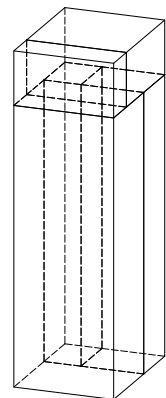
XF_Funktionsraume_BBT_a



Internal separation/Layout of functional areas in section width of 600mm

Functional XF areas left
W600

- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar



XF_Funktionsraume_BBT_b



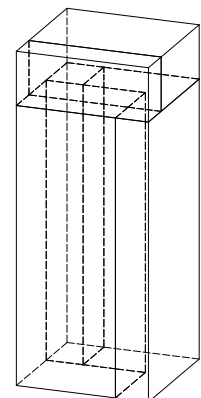
XF_Funktionsraume_4b_a



Internal separation/Layout of functional areas in section width of 800mm

Functional 4b XF areas left
W800

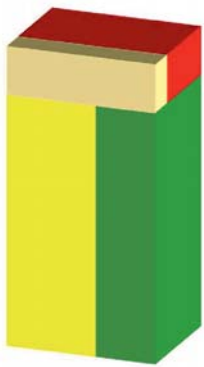
- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar



XF_Funktionsraume_4b_b

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 4 / up to Type 7



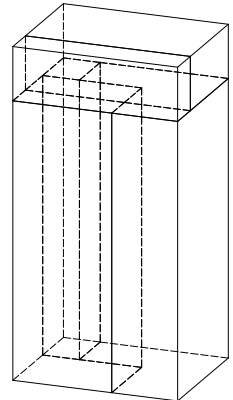
XF_Funktionsraeume_4b_1000_a



Internal separation/Layout of functional areas in section width of 1000mm

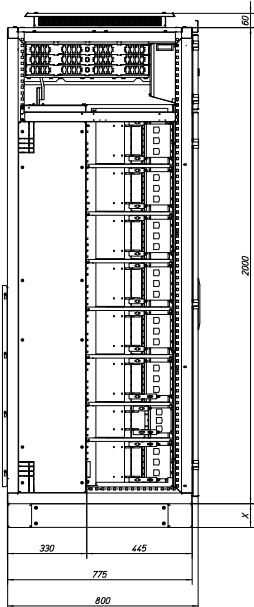
Functional 4b XF areas left
W1000

- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar

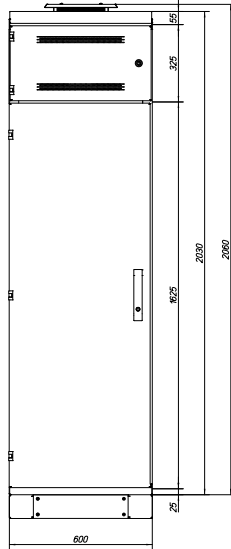


XF_Funktionsraeume_4b_1000_b

W600



XF_4b_W600_Katalog_1



Dimensions

- Section width: 600mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

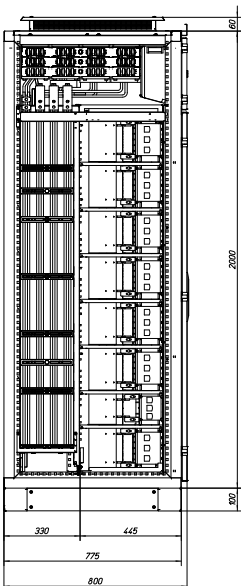
Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 445mm

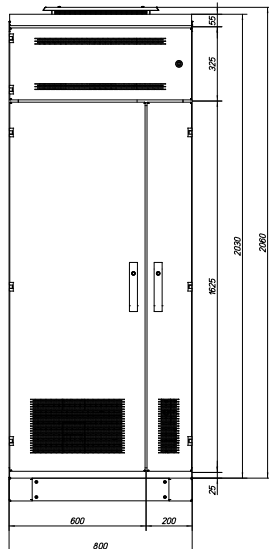
Cable connection area at the rear

- Width = 370mm
- Depth = 325mm

W800



XF_4b_W800_Katalog



Dimensions

- Section width: 800mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 445mm

Cable connection area at the rear

- Width = 570mm
- Depth = 325mm

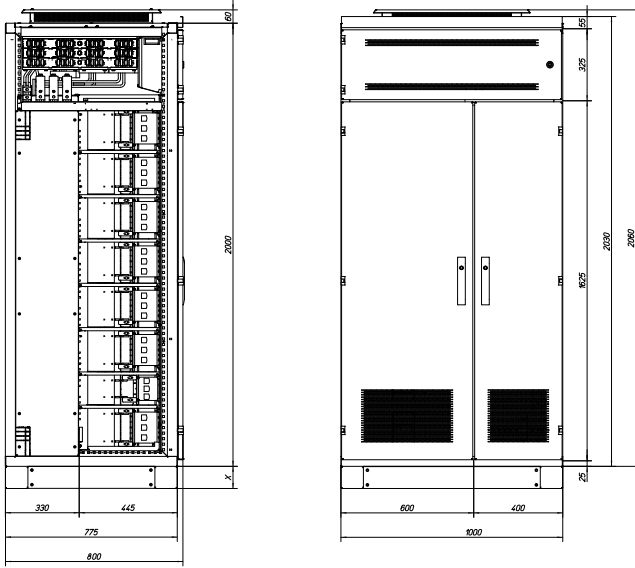
Cable connection area at the side

- H = 1600mm
- B = 200mm

xEnergy Switchboards

XF Outgoing Sections for Fixed modules up to 630A, Form 4 / up to Type 7

W1000



Dimensions

- Section width: 1000mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 445mm

Cable connection area at the rear

- Width = 570mm
- Depth = 325mm

Cable connection area at the side

- H = 1600mm
- B = 400mm

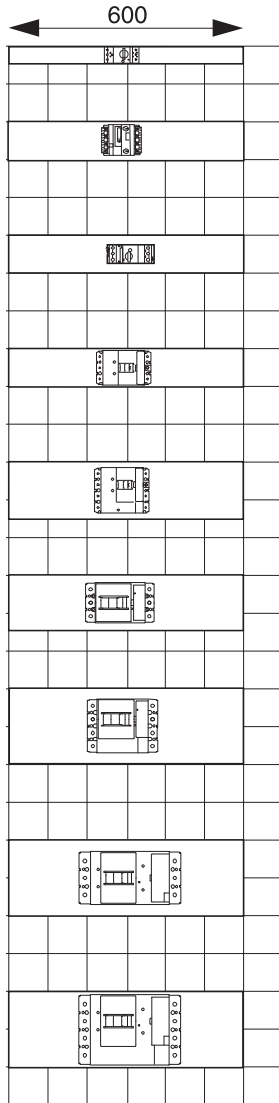
XF_4b_W1000_Katalog

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 4 / up to Type 7

XF Outgoing Sections (fixed design) - module heights and equipment: Installation of switchgear in a horizontal way only

Module width



Motor protective switch up to **32 A**
Type PKZM0, 2 U = 50 mm

Motor protective switch up to **40 A**

Motor protective switch up to **63 A**
Type PKZM4, 4 U = 100 mm

Circuit breaker up to **160 A, 3-pole**
Type NZM1, 4 U = 100 mm

Circuit breaker up to **160 A, 4-pole**
Type NZM1, 6 U = 150 mm

Circuit breaker up to **300 A, 3-pole**
Type NZM2, 6 U = 150 mm

Circuit breaker up to **300 A, 4-pole**
Type NZM2, 8 U = 200 mm

Circuit breaker up to **630 A, 3-pole**
Type NZM3, 8 U = 200 mm

Circuit breaker up to **630 A, 4-pole**
Type NZM3, 10 U = 250 mm

Modules

- Mounting plates - width = 600mm
- Mounting plates prepared for NZM series
- Each module has its own front panel
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter
- Modules for general installation units are available in a height from 50 to 600mm

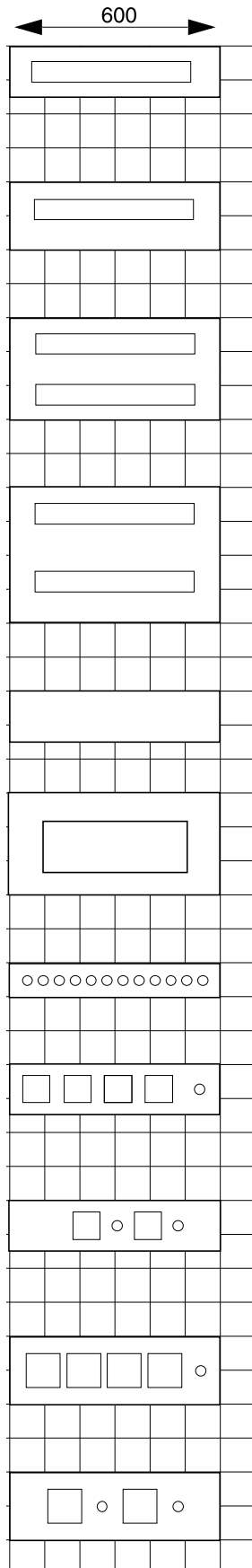
R44810-1143d_13_13_1A4

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 4 / up to Type 7

XF Outgoing sections - module heights and equipment: Module covers for modular installation devices, measuring and command devices

Module width



Modular installation devices/PKZ...

1 x 12 PE/1 x 24 PE, 6 U = 150 mm

1 x 12 PE/1 x 24 PE, 8 U = 200

2 x 12 PE/2 x 24 PE, 12 U = 300 mm

2 x 12 PE/2 x 24 PE, 16 U = 400 mm

Modules for connections

6 U = 150 mm

12 U = 300 mm

Front covers

for **command and signalling devices**

9 x RMQ-Titan/12 x RMQ-Titan, 4 U = 100 mm

for the **installation of measuring devices**

4 x 72 x 72 mm + 1 change-over switch

8 U = 200mm/6 U = 150 mm

2 x 72 x 72 mm + 2 change-over switches

6 U = 150 mm

4 x 96 x 96 mm + 1 change-over switches

8 U = 200 mm

2 x 96 x 96 mm + 2 change-over switches

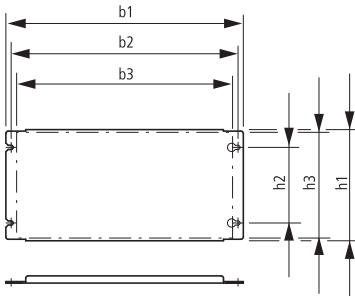
8 U = 200 mm

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 4 / up to Type 7

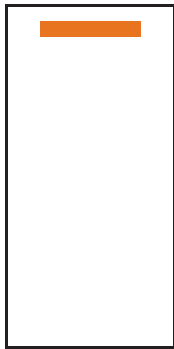
General Mounting Plates

General mounting plates are available in heights from 50mm up to 1200mm



00163815_0

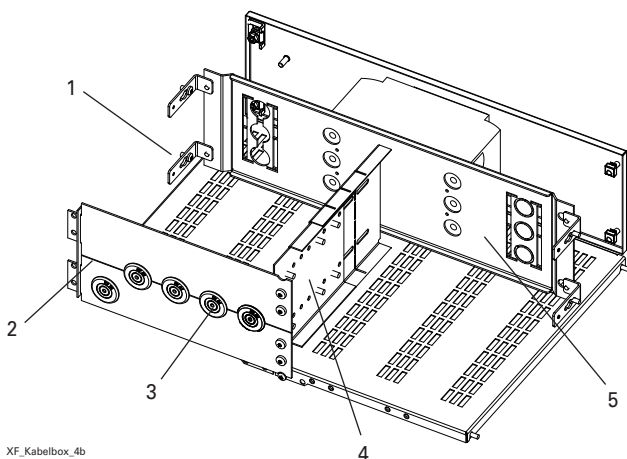
Type	h1	b1	h2	b2	h3	b3
XME0206M	47	489	25	475	40	458
XME0406M	97	489	50	475	90	458
XME0606M	147	489	100	475	140	458
XME0806M	197	489	150	475	190	458
XME1006M	247	489	200	475	240	458
XME1206M	297	489	250	475	290	458
XME1406M	347	489	300	475	340	458
XME1606M	397	489	250	475	390	458
XME2006M	497	489	450	475	490	458
XME2406M	597	489	550	475	590	458
XME3206M	797	489	750	475	790	458
XME3806M	947	489	900	475	940	458
XME4006M	997	489	950	475	990	458
XME4806M	1197	489	1150	475	1190	458



Main busbar

- Position possible: top
- From 1x30/10 up to max 12x30/10 Cu

Stacked_Cu_Schematik_2



XF_Kabelbox_4b

Cable Connection Box

- Terminal boxes are located behind the mounting plate. Connection is done on the rear connections at the switches of the NZM series (see accessories for NZM). In case of motor starter combinations the connecting lines will be led from the switchgear area to the terminals placed in the boxes. To close the boxes, modular cover plates are designed in a way to make sure they are easy to mount after connecting the cables. Depending on the size of the module you need to use different cable entries in different sizes.

- 1 = Connection box
- 2 = Closing plates
- 3 = Grommets
- 4 = Separation panel (dropper bar/terminal box)
- 5 = Mounting plate

xEnergy Switchboards

XF Outgoing Sections for Fixed Modules up to 630A, Form 4 / up to Type 7

Max. current load and power loss for dropper bars in an XF section

Dropper bar:

Center-to-center distance between phases = 60mm

Rated current I_n = up to 2000A

Rated short-time withstand current I_{cw} = up to 80kA

Ie	Busbar cross-section	Degree of protection	Permitted continuous current I depending on ambient temperature and degree of protection of the distribution section			Power loss		
			25°C A	35°C A	50°C A	25°C W/m	35°C W/m	50°C W/m
A								
1600	2x40x10	IP31	1730	1600	1400	98	84	64
		IP42	1730	1600	1400	98	84	64
		IP55	1480	1450	1250	72	69	51
2000	2x60x10	IP31	2100	2000	1850	102	92	79
		IP42	1930	1900	1850	86	83	79
		IP55	1650	1650	1600	63	63	59

Short-circuit strength for dropper bars in an XF section

Ie	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center
		kA	mm
A			
1600	2x40x10	35/1s	375
		50/1s	275
		65/1s	250
2000	2x60x10	35/1s	375
		50/1s	275
		65/1s	250
		80/1s	200
		50/3s	200

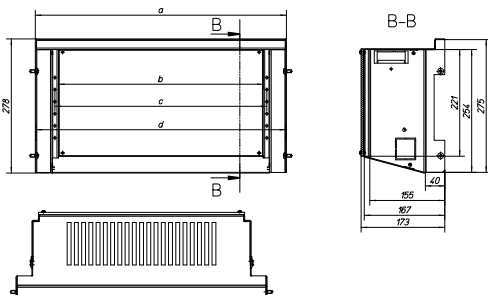
Wiring module

The wiring module is mounted in front of the main busbar.

Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring / cross-wiring of the system. The cable duct itself is made of plastic-coated metal.

Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system.

The rear of the module is planked with an additional insulating partition of 3mm (see fig. 1).

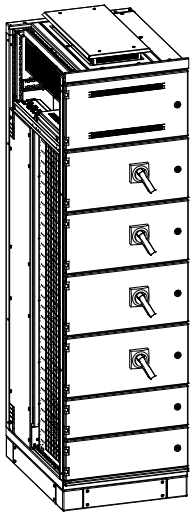


	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717
W1000	920	824	839	817

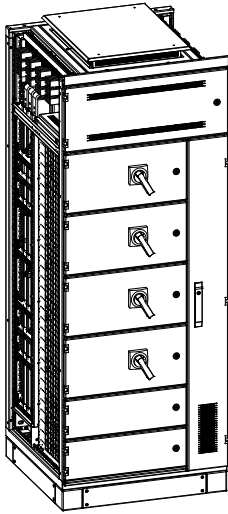
1) Additional insulating partition at the rear

xEnergy Switchboards

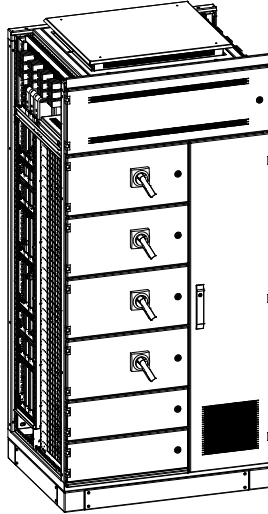
XF Outgoing Sections Box Solution up to 630A, Form 4 / up to Type 7 Motor Control Center in Fixed Design



XF_box solution_0608



XF_box solution_0808



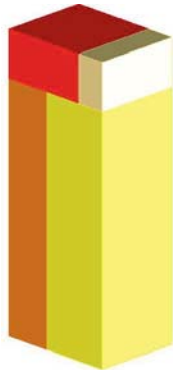
XF_box solution_1008

Description of the sections

- Section width 600mm, with an additional cable connection area at the side for section widths of 800/1000mm
- For compact circuit breakers of the NZM 1-3 series in 3-pole, 4-pole and 3P+N version
- In horizontal mounting position
- Wiring module of H = 325mm in front of the main busbar, can optionally be replaced by a partition panel
- Internal separation up to Form 4 / up to Type 7
- On the incoming side, connection is done on a vertically arranged dropper bar system (see instructions). In the rear area of the cabinet, the system of bars is aligned in parallel with the side panel. The dropper bar system is covered with panels and therefore shock-proof.
- Each module has its own switchgear area door, if a cable connection area is installed at the side, it will be closed with a separate door
- Operation of the switchgear optionally behind the door or with a rotary door coupling handle.
- Can be configured with an additional cable connection area at the side
- Even with a cable connection area at the side, there is only one shared wiring module



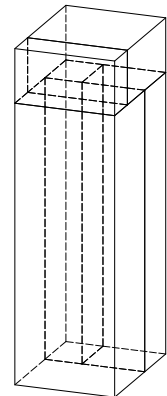
XF_Funktionsraeume_BBT_a



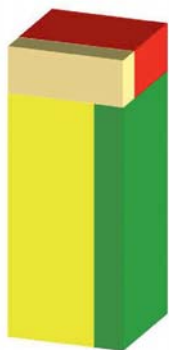
Internal separation/Layout of functional areas in section width of 600mm

Functional XF areas left
W600

- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar



XF_Funktionsraeume_BBT_b



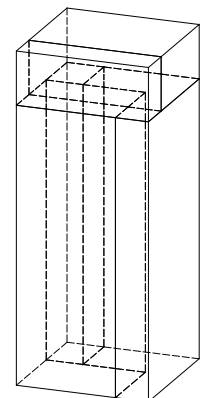
XF_Funktionsraeume_4b_a



Internal separation/Layout of functional areas in section width of 800/1000mm

Functional 4b XF areas left
W800/1000

- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar

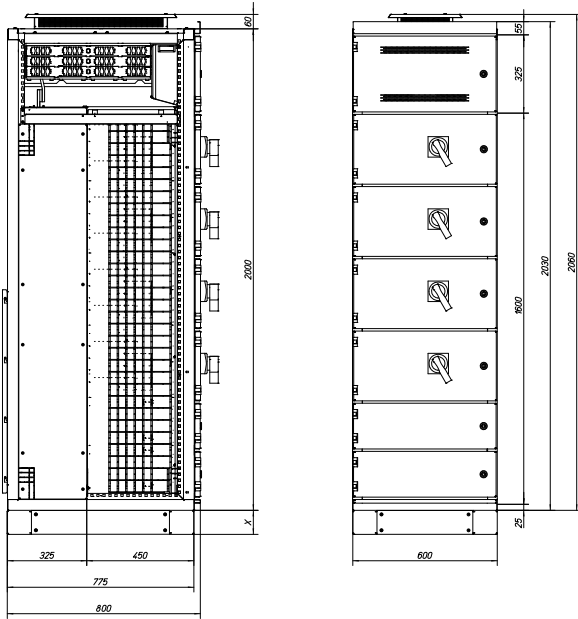


XF_Funktionsraeume_4b_b

xEnergy Switchboards

XF Outgoing Sections Box Solution up to 630A, Form 4 / up to Type 7 Motor Control Center in Fixed Design

W600



XF_box solution_0608

Dimensions

- Section width: 600mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

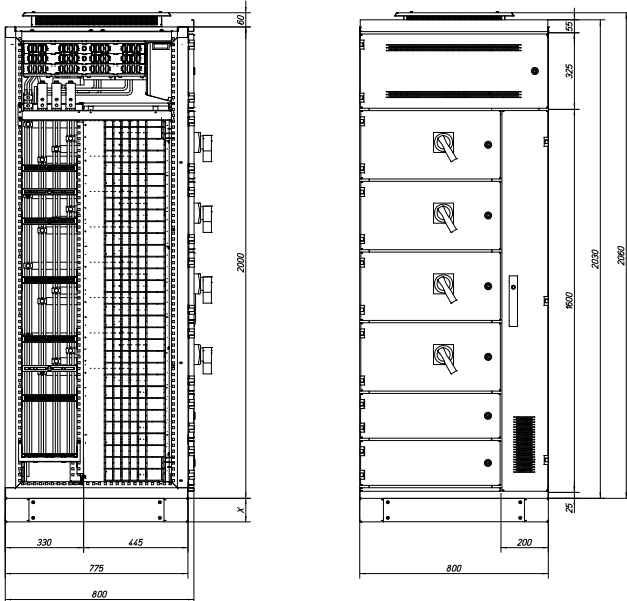
Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 450mm

Cable connection area at the rear

- Width = 370mm
- Depth = 325mm

W800



XF_box solution_0808

Dimensions

- Section width: 800mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 450mm

Cable connection area at the rear

- Width = 570mm
- Depth = 325mm

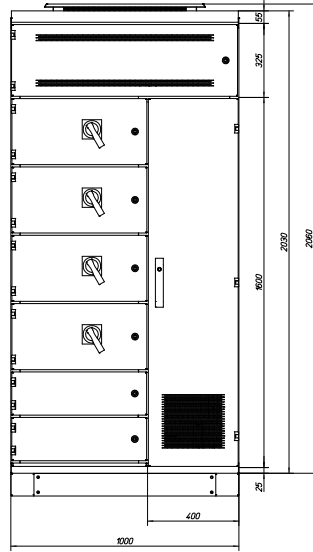
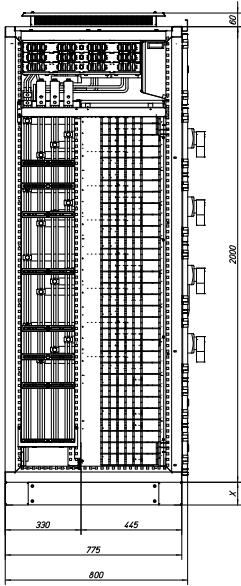
Cable connection area at the side

- H = 1600mm
- W = 200mm

xEnergy Switchboards

XF Outgoing Sections Box Solution up to 630A, Form 4 / up to Type 7 Motor Control Center in Fixed Design

W1000



Dimensions

- Section width: 1000mm
- Section depth: 770mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1600mm
- Max. installation depth available: D = 450mm

Cable connection area at the rear

- Width = 370mm
- Depth = 325mm

Cable connection area at the side

- H = 1600mm
- W = 400mm

XF_box solution_1008

xEnergy Switchboards

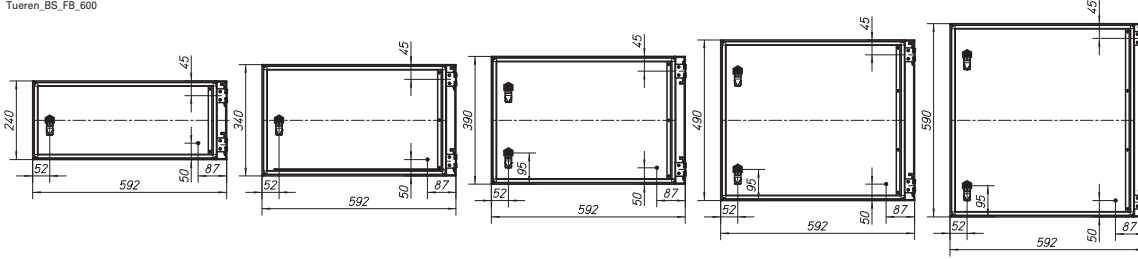
XF Outgoing Sections Box Solution up to 630A, Form 4 / up to Type 7 Motor Control Center in Fixed Design

Doors - Box Solution

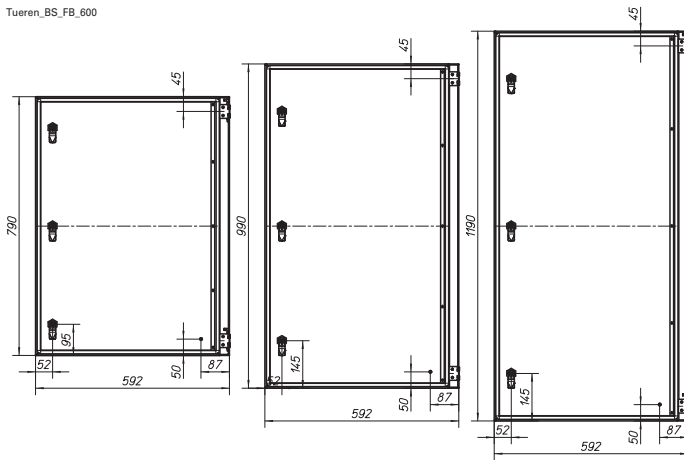
Version: Stand-alone cabinet (no combination/switchgear area only)

xEnergy doors of section width 600

Tueren_BS_FB_600



Tueren_BS_FB_600

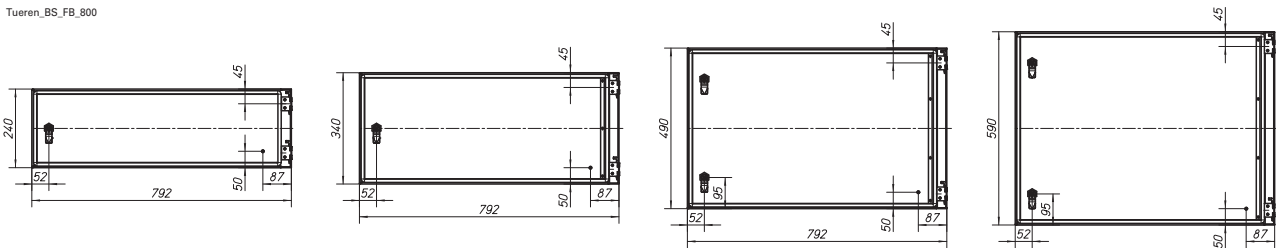


Modules

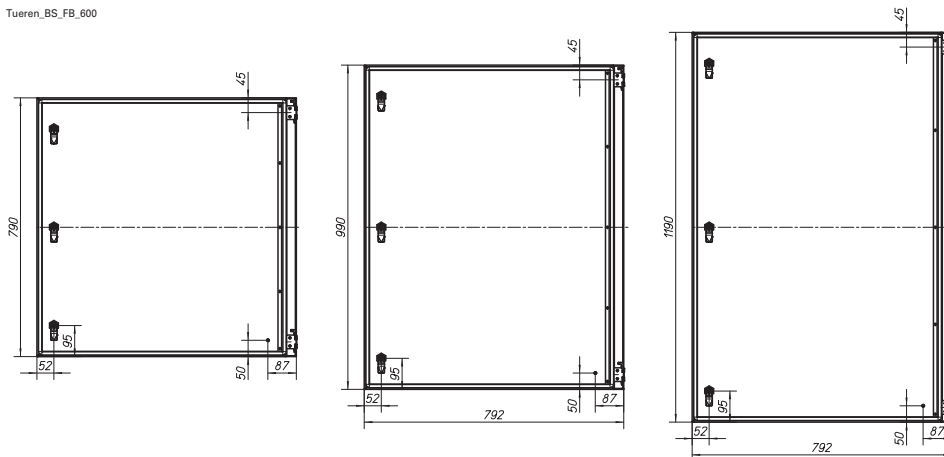
- Mounting plates width = 600mm
- Each module has its own module door
- All of the installation modules combinable with BBT are marked in colours in the "Individual components" chapter.
- Modules for general installation units are available in heights of 200 to 1200mm

xEnergy doors section width 800

Tueren_BS_FB_800



Tueren_BS_FB_800



xEnergy Switchboards

XF Outgoing Sections Box Solution up to 630A, Form 4 / up to Type 7 Motor Control Center in Fixed Design

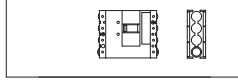
Box Solution Mounting Plates for NZM 1-3

Box Solution 4 - Heights and equipment

Module width 600 mm

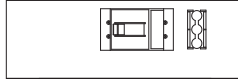
Circuit breaker NZM1

3/4-pole up to 160 A, H = 200 mm, 8U
Mounting position: horizontal, installation type: fixed/withdrawable



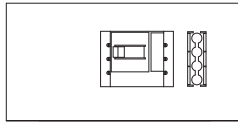
Circuit breaker NZM2

3-pole up to 300 A, H = 200 mm, 8U
Mounting position: horizontal, installation type: fixed/withdrawable



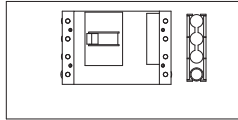
Circuit breaker NZM2

4-pole up to 300 A, H = 300 mm, 12U
Mounting position: horizontal, installation type: fixed/withdrawable



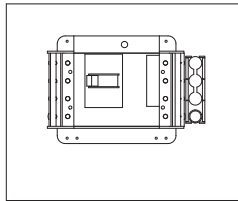
Circuit breaker NZM3

3/4-pole up to 630 A, H = 300 mm, 12U
Mounting position: horizontal, installation type: fixed



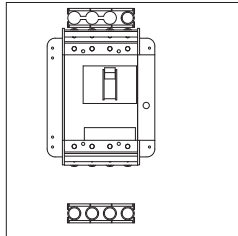
Circuit breaker NZM3

3/4-pole up to 630 A, H = 500 mm, 20U
Mounting position: horizontal, installation type: withdrawable



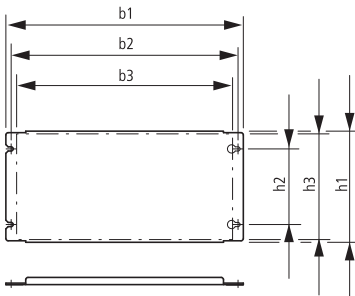
Circuit breaker NZM3

3/4-pole up to 630 A, H = 600 mm, 24U
Mounting position: vertical, installation type: fixed/withdrawable



BS_600_NZM

General mounting plates

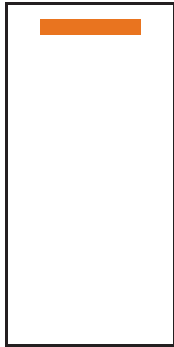


00163815_0

Type	h1	b1	h2	b2	h3	b3
XME0806M	197	489	150	475	190	458
XME1006M	247	489	200	475	240	458
XME1206M	297	489	250	475	290	458
XME1406M	347	489	300	475	340	458
XME1606M	397	489	250	475	390	458
XME2006M	497	489	450	475	490	458
XME2406M	597	489	550	475	590	458
XME3206M	797	489	750	475	790	458
XME3806M	947	489	900	475	940	458
XME4006M	997	489	950	475	990	458
XME4806M	1197	489	1150	475	1190	458

xEnergy Switchboards

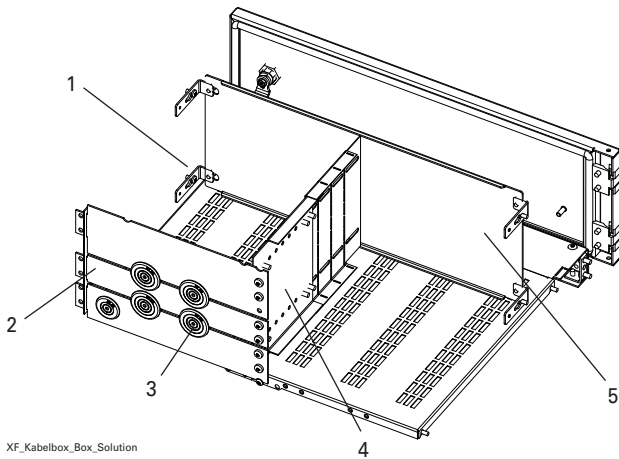
XF Outgoing Sections Box Solution up to 630A, Form 4 / up to Type 7 Motor Control Center in Fixed Design



Main busbar

- Position possible: top
- From 1x30/10 up to max 12x30/10 Cu

Stacked_Cu_Schematik_2



XF_Kabelbox_Box_Solution

Cable Connection Box

- Terminal boxes are located behind the mounting plate. Connection is done on the rear connections of the switches of the NZM series (see accessories for NZM). In case of motor starter combinations the connection lines run from the switchgear area to the connection terminals placed in the boxes. To close the boxes, modular cover plates are designed in a way to make sure they are easy to mount after connecting the cables. Depending on the size of the module you need to use different cable entries in different sizes.

- 1 = Connection box
- 2 = Closing plates
- 3 = Grommets
- 4 = Separation panel (dropper bar/terminal box)
- 5 = Mounting plate

Max. current load and power loss for dropper bars in an XF section

Dropper bar:

Center-to-center distance between phases = 60mm

Rated current I_n = up to 2000A

Rated short-time withstand current I_{cw} = up to 80kA

Ie	Busbar cross-section	Degree of protection	Permitted continuous current I depending on ambient temperature and degree of protection of the distribution section			Power loss		
			25°C A	35°C A	50°C A	25°C W/m	35°C W/m	50°C W/m
1600	2x40x10	IP31	1730	1600	1400	98	84	64
		IP42	1730	1600	1400	98	84	64
		IP55	1480	1450	1250	72	69	51
2000	2x60x10	IP31	2100	2000	1850	102	92	79
		IP42	1930	1900	1850	86	83	79
		IP55	1650	1650	1600	63	63	59

xEnergy Switchboards

XF Outgoing Sections Box Solution up to 630A, Form 4 / up to Type 7 Motor Control Center in Fixed Design

Short-circuit strength for dropper bars in an XF section

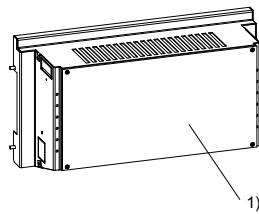
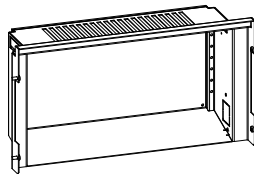
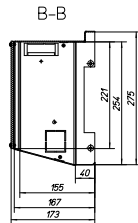
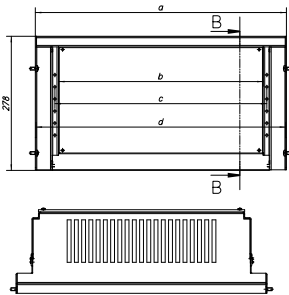
le	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center	
A		kA	mm	
1600	2x40x10	35/1s	375	
		50/1s	275	
		65/1s	250	
2000	2x60x10	35/1s	375	
		50/1s	275	
		65/1s	250	
		80/1s	200	
		50/3s	200	

Wiring module

- The wiring module is mounted in front of the main busbar.

Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring / cross-wiring of the system. The cable duct itself is made of plastic-coated metal.

Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system. The rear of the module is planked with an additional insulating partition of 3mm (see fig. 1).



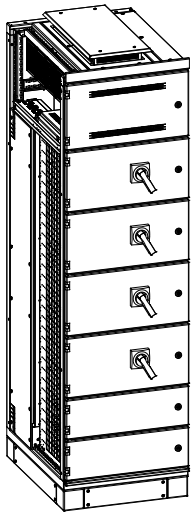
	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717
W1000	920	824	839	817

Metering_compartment_RearAccess_ASSEM_H250

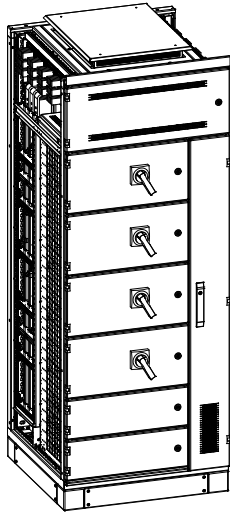
1) Additional insulating partition at the rear

xEnergy Switchboards

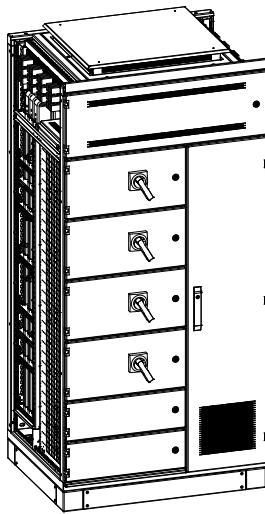
XW Outgoing Sections Motor Control Center in Withdrawable Design



XF_box solution_0608



XF_box solution_0808



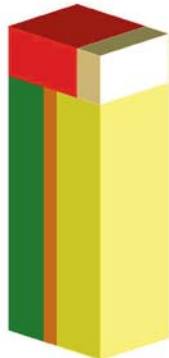
XF_box solution_1008

Description of the sections

- Section width 600mm, with an additional cable connection area at the side for section widths of 800/1000mm
- Max. switchgear area available for equipment = 1575 mm / 21 modules
- In horizontal mounting position
- Wiring module of H = 325mm in front of the main busbar, can optionally be replaced by a partition panel
- Internal separation up to Form 4 / up to Type 7
- On the incoming side, connection is done on a vertically arranged dropper bar system by means of incoming plug-type contacts. The dropper bar system is placed behind the switchgear area in the cabinet and it is covered to be shock-proof. Contact holes in the partition panels can optionally be equipped with self-closing plates.
- Can be combined with Smart Wire DT
- If a cable connection area is installed at the side, it will be closed with a separate door
- Can be configured with an additional cable connection area at the side
- Even with a cable connection area at the side, there is only one shared wiring module



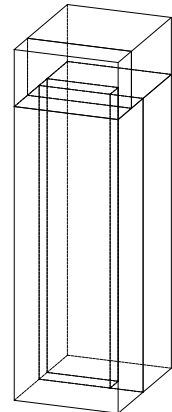
Funktionsraeume_XW_BBT_a



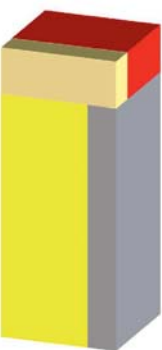
Internal separation/Layout of functional areas in section width of 600mm

Functional areas XW
W600

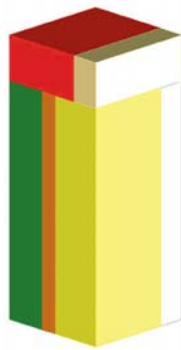
- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar



Funktionsraeume_XW_BBT_b



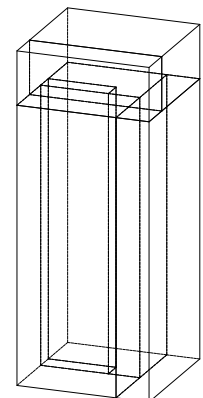
Funktionsraeume_XW_BBT_800_a



Internal separation/Layout of functional areas in section width of 800mm

Functional areas XW
W800

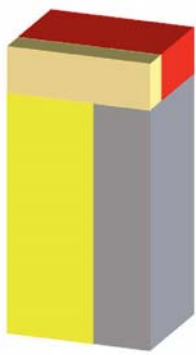
- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar
- Grey: Additional cable area



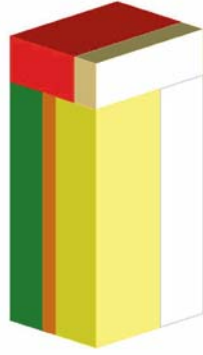
Funktionsraeume_XW_BBT_800_b

xEnergy Switchboards

XW Outgoing Sections Motor Control Center in Withdrawable Design



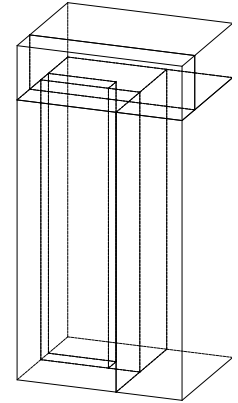
Funktionsraume_XW_BBT_1000_a



Internal separation/Layout of functional areas in section width of 1000mm

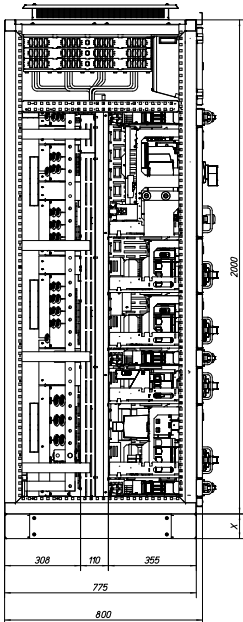
Functional areas XW
W1000

- Yellow: Switchgear area
- Green: Cable area
- Ochre: Metering compartment
- Red: Main busbar area
- Orange: Dropper bar
- Grey: Additional cable area

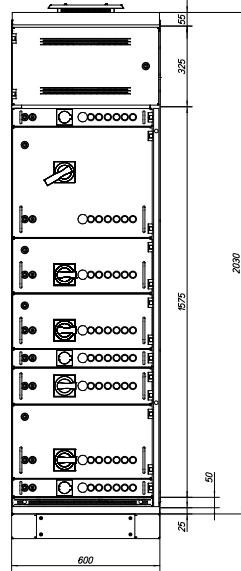


Funktionsraume_XW_BBT_1000_b

W600



XW_0608



Dimensions

- Section width: 600mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

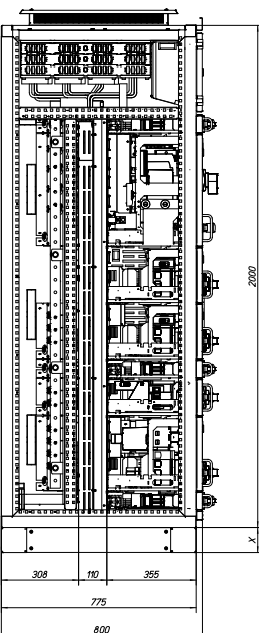
Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1575mm / 21 modules
- Max. installation depth available: D = 450mm

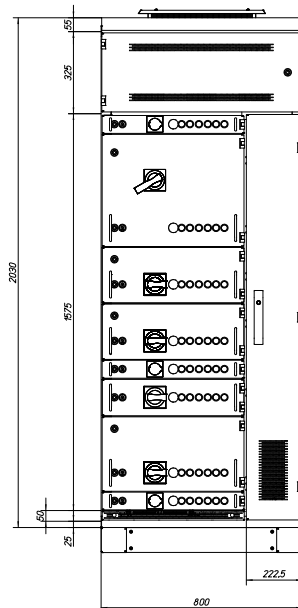
Cable connection area at the rear

- Width = 308mm
- Depth = 355mm

W800



XW_0808



Dimensions

- Section width: 800mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1575mm / 21 modules
- Max. installation depth available: D = 355mm

Cable connection area at the rear

- Width = 800mm
- Depth = 308mm

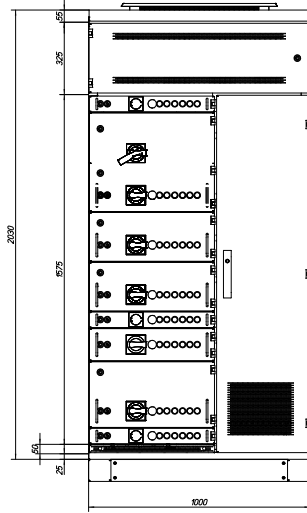
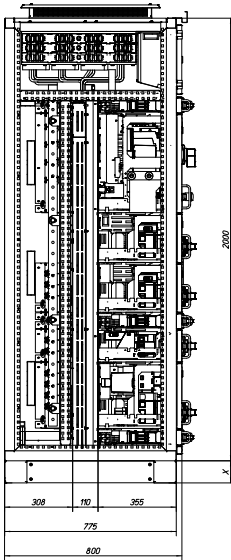
Cable connection area at the side

- H = 1600mm
- W = 200mm

xEnergy Switchboards

XW Outgoing Sections Motor Control Center in Withdrawable Design

W1000



Dimensions

- Section width: 1000mm
- Section depth: 800mm
- In addition, a cable guidance cabinet can be installed at the rear of the XP section.
- Section height: 2000mm, optionally with a plinth (x) of 100 or 200mm

Switchgear area

- Module width = 600mm
- Max. installation area available: H = 1575mm / 21 modules
- Max. installation depth available: D = 355mm

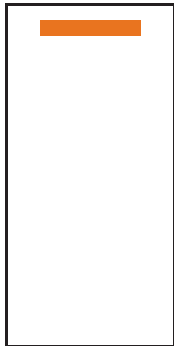
Cable connection area at the rear

- Width = 1000mm
- Depth = 308mm

Cable connection area at the side

- H = 1600mm
- W = 400mm

XW_1008



Main busbar

- Position possible: top
- From 1x30/10 up to max. 12x30/10 Cu

Stacked_Cu_Schematik_2

xEnergy Switchboards

XW Outgoing Sections Motor Control Center in Withdrawable Design

Modules

- All standard configurations listed in the Drawer_Outgoing_Unit_List can be used
- Each module can be combined with a steel front panel
- All components combinable with BBT are marked in colours in the "Individual components" chapter.

Versions of module front panels:

There are two versions of module front panels available: A plastic front panel and a metal front panel.

Plastic front:

The plastic front is hooked onto the module by means of a metal front plate and then screw-fixed. This is how a solid, screw-fixed connection is established between the front and the module body. For wiring or service jobs, the front panel needs to be

Metal front:

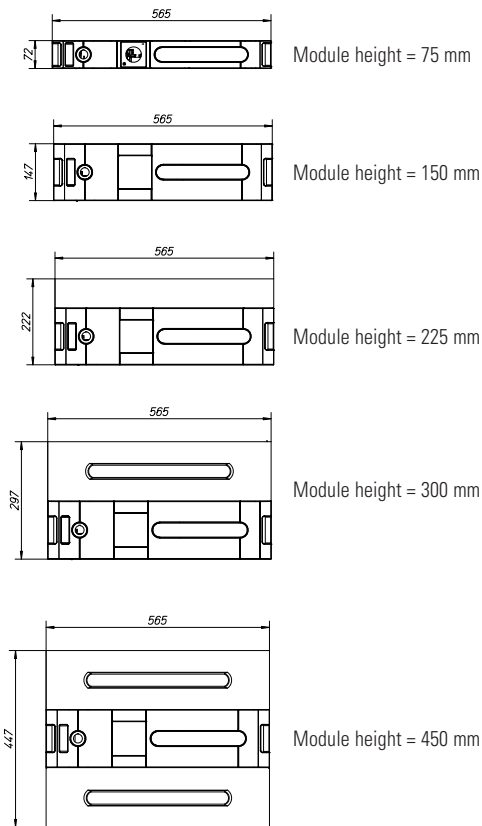
The metal front is supplied as a unit with the base plate/frame. The base frame is screw-fixed with the module. The front itself is designed like a door with hinges, this always provides free access to all components behind it and to the respective wiring. To comply with IP 55 requirements, the metal support frame is equipped with a polyu-

removed because you need access to the drawer from the front. To comply with IP 55 requirements, the metal support frame comes with a polyurethane 2-components foam sealing applied while hot.

rethane 2-components foam sealing applied while hot. For IP31 and IP55 the door comes with a sealing, so the sealing surface between the support frame and the door is neatly sealed.

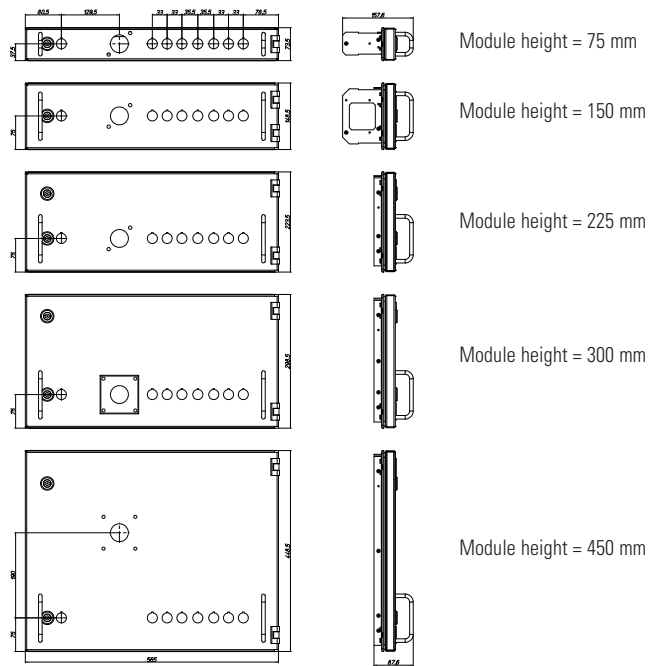
Dimensions of module fronts:

Plastic front:



xE_MCC_2

Metal front:



MCC_MFR_1

xEnergy Switchboards

XW Outgoing sections for Motor Control Centers in Withdrawable Design

Setup of fixed modules:

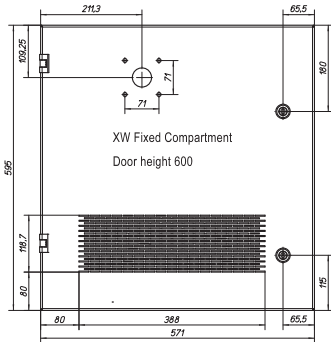
Heights 600 mm and 750 mm.

Due to their weight modules higher than 450 mm need to be fixed in the MCC cabinet and screw-fixed to it. Generally you can use the same components as with smaller modules.

Dimensions of Fixed Modules:

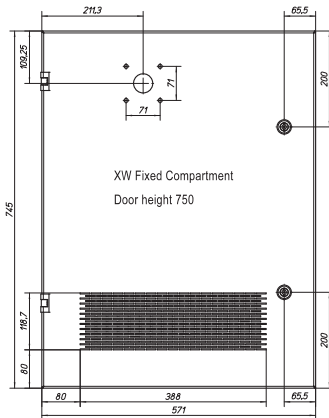
Dimensions of the doors:

Height 600 mm



MCC_Fix_H600_H750_Door

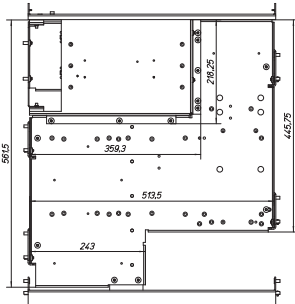
Height 750 mm



MCC_Fix_H600_H750_Door

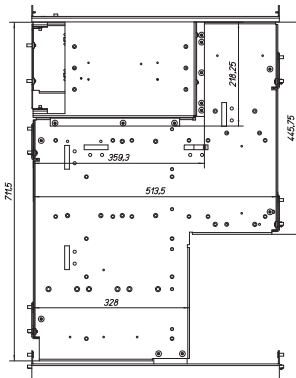
Dimensions of Fixed Modules:

**Front view of the mounting plate
Height 600 mm**



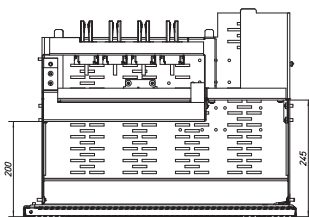
MCC_Fix_H600_H750

**Front view of the mounting plate
Height 750 mm**



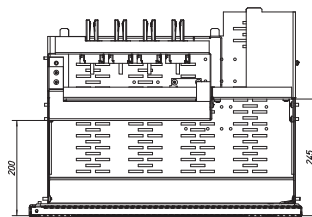
MCC_Fix_H600_H750

**Top view
Height 600 mm**



MCC_Fix_H600_H750

**Top view
Height 750 mm**



MCC_Fix_H600_H750

xEnergy Switchboards

XW Outgoing sections for Motor Control Centers in Withdrawable Design

Overview of the different drawers listed according to module heights and performance (amperage)

IP31:				IP55:			
Module heights mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage	Module heights mm	Drawers	50 kA Performance or amperage	80 kA Performance or amperage
75	FE3P	16-32A	16-32A	75	FE3P	16-25A	16-25A
	DOL	3-15kW	0.06-15kW		DOL	3-11kW	0.06-11kW
	FR	3-15kW	0.06-15kW		FR	3-11kW	0.06-11kW
150	FE3P	20-200A	20-200A	150	FE3P	20-160A	20-160A
	FC3P	20-100A	20-100A		FC3P	20-80A	20-80A
	DOL	18.5-45kW	18.5-45kW		DOL	15-37kW	15-37kW
	FR	18.5-22kW	-		FR	15-18.5kW	-
225	SD	5.5-15kW	7.5-15kW	225	SD	5.5-11kW	7.5-11kW
	FE4P	20-200A	20-200A		FE4P	20-160A	20-160A
	FC3P	125A	125A		FC3P	100-125A	100-125A
	FC4P	20-125A	20-125A		FC4P	20-125A	20-125A
	DOL	55-75kW	55-75kW		DOL	45-55kW	45-55kW
300	FR	30-75kW	18.5-75kW	300	FR	22-55kW	15-55kW
	SD	18.5-22kW	-		SD	15-18.5kW	-
	FE3P	250A	250A		FE3P	200A	200A
	FE4P	250A	250A		FE4P	200A	200A
	FC3P	160-200A	160-200A		FC3P	160A	160A
450	DOL	90kW	90kW	450	DOL	75kW	75kW
	FR	-	-		FR	-	-
	SD	37-75kW	18.5-75kW		SD	22-55kW	15-55kW
	FE3P	400A	400A		FE3P	400A	400A
	FE4P	400A	400A		FE4P	400A	400A
As of a height of 600 mm, it is only possible to create a set-up with fixed modules	FC3P	250-300A	250-300A	As of a height of 600 mm. it is only possible to create a set-up with fixed modules	FC3P	250A	250A
	FC4P	160-300A	160-300A		FC4P	160-250A	160-250A
	DOL	110-160A	110-160A		DOL	90-110A	90-110A
	FR	90-110kW	90-110kW		FR	75-90kW	75-90kW
	600	FE3P	630A		630A	600	FE3P
600	FE4P	630A	630A	600	FE4P	630A	630A
	FC3P	400-630A	400-630A		FC3P	400A	400A
	FC4P	400-630A	400-630A		FC4P	400A	400A
	DOL	200-250kW	200-250kW		DOL	132-200kW	132-200kW
	FR	132-160kW	132-160kW		FR	110kW	110kW
	SD	90-250kW	90-250kW		SD	75-200kW	75-200kW
750	FR	200-250kW	200-250kW	750	FR	132-200kW	132-200kW
	SD	-	250kW		SD	250kW	250kW

xEnergy Switchboards

Smart Wire in xEnergy

What is SmartWire-DT®

SmartWire-DT® is a wiring and communication system for industrial control systems; it can be used both in the electrical cabinet and in the periphery. It replaces the control wiring which up to now was necessary for the switchgear as well as the input and output components, and it connects up to 99 SmartWire-DT® participants in an SWD string. An SWD string can be expanded to up to a max. of 600 m.

For more information on SmartWire-DT® please visit:

www.eaton.com/moeller → Support

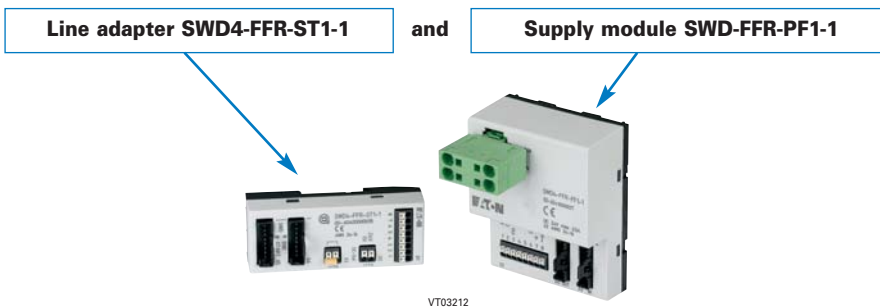
and enter the search key "Das System" ("The system") in the quick search function.

How to incorporate SmartWire-DT® in the MCC

Key requirement:

Our objective was to make it possible to replace the individual drawers during full operation without interrupting the SW-DT string and without the need to reconfigure the replaced SW-DT components.

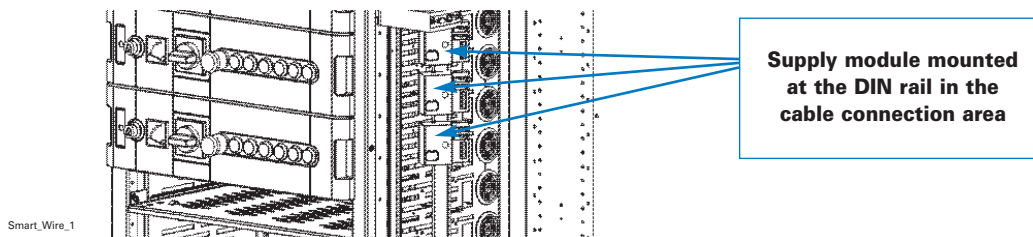
Additional equipment especially required for MCC:



Explanation of the supply module

You need to plan one supply module supplied with 24 VDC (back-up fuse max. 40 A) for each drawer. It is only thanks to this module that the pulling and pushing of the drawers is possible without any effect.

Supply modules are fixed at the DIN rail (see drawing) in the cable connection area, at the level of the drawers.



Explanation of the line adapter

You will need a line adapter for each drawer. This adapter will be connected with the supply module via the auxiliary current contacts using conventional wiring. In the drawer as such all participants are connected through the SW-DT flat cable, the beginning and the end of the flat cable must be connected with the line adapter. There is also a 24 VDC / max 2 A voltage tap available, which can be used to supply

more consumers. The line adapter also offers the possibility to interrupt the activation of contactors by using a release terminal. This is necessary if you wish to include an emergency stop button or a safety chain, for example.

Connection between supply module (SWD-FFR-PF1-1) and line adapter (SWD4-FFR-ST1-1)

The connection between these two additional devices is established by means of conventional wiring. There is no SW-DT flat cable necessary. Each device is equipped with 8 spring-type terminals which need to be

connected through auxiliary current terminals (with the same numbers).

xEnergy Switchboards

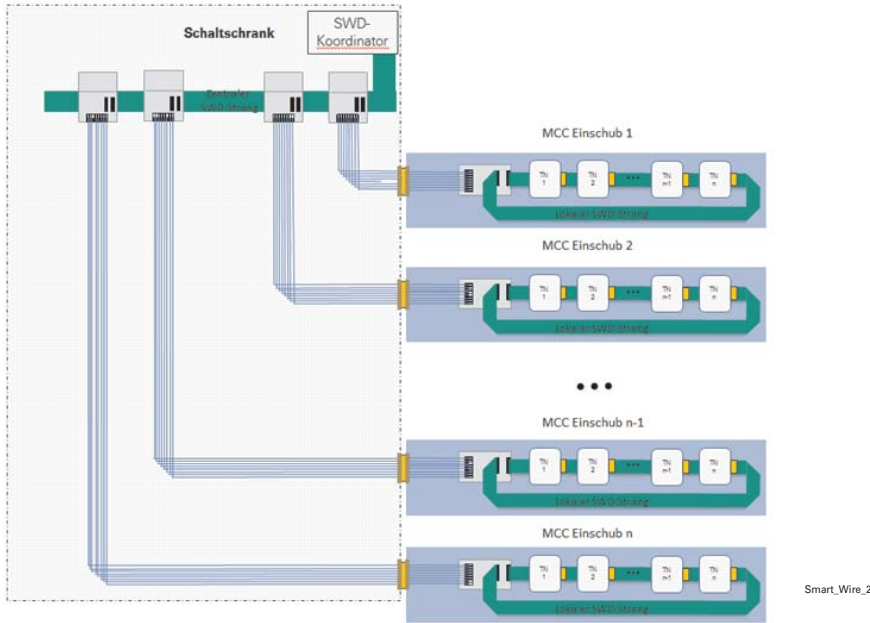
Smart Wire in xEnergy

SWD Gateway

PROFIBUS DP, CANopen, Ethernet IP and Modbus TCP-Gateways ensure the data exchange with the higher level of the control system. They provide the most important field bus connections for the most com-

mon control functions. The Gateway is positioned in the cable connection area, but it can variably be adjusted or placed there depending on the space available.

SWD Gateway



Mechanical Setup of MCC with SmarWire-DT®

Cabinet:

Generally there is no difference between sections with a SW-DT setup and normally wired MCC sections. In the cable connection area, the SWD4-FFR-PF1-1 supply module can be snapped onto the DIN rail which is also required for conventional wiring of control functions. The

Gateway is usually mounted at the vertical DIN rail, at the top or at the bottom of the cable connection area (depending on the cable routing).

Drawer

Generally you can use standard drawers. There are expansion sets available to make them Smart Wire compatible. These expansion sets exist in all drawer sizes and are compulsory if SmartWire needs to be

used in the drawers. The line adapter will be snapped onto a DIN rail included in the expansion set.

For more information on Installation and Mounting Instructions, please visit:

www.xEnergy-partner.com

xEnergy Switchboards

Soft Starter in xEnergy MCC and iMCC

For the power range from 1.1 to 15kW (3-32A) you can use soft starter solutions in XW drawer sections. The Soft Starter series DS7 sizes 1+2 are incorporated in XW drawers and tested to IEC 61439.

Technical Details

Versions:	DOL, FR (direct starter, reverse starter)
Rated short-time withstand current:	50 kA, 80 kA
Drawer heights:	75, 150, 225 mm
Versions/finishes:	
Standard	without SW-DT for normal MCC application
Basic	with SW-DT, but without reading of the circuit breaker (iMCC application)
Complete	with SW-DT and reading of the circuit breaker - electronic tripping (iMCC application)
Degree of protection:	IP31, IP55
Power:	1,5 -15 kW
Assignment type:	Type 2
Ambient temperature:	35°C

Setup/Installation

The soft starter can be installed in standard drawers where additional expansion sets can be fixed to establish the pre-requisites for soft starters. These retro-fitting sets include a DIN rail (L = depending on the

drawer height) and screws. Installation must be done according to our installation guideline (IL – XMW..06SS-161/162/163).

Electric components

Configuration of the electric components has to be done according to the XW_DS7_Drawer_Outgoing_Unit_List. This list details all the electric components necessary for the different variants of drawers.

You can find the complete documentation on our xEnergy homepage at www.xEnergy-Partner.com

Different finishes of drawers:

There are 3 different versions of drawer finishes with soft starter.

Standard: In the standard version the soft starter and all electric components are wired and controlled in the conventional way.

Basic: In the Basic version, the control wiring is carried out using a SmartWire-DT. There is no conventional control wiring. The circuit breaker includes a thermomagnetic tripping unit, therefore it is not possible to make a query of the current parameters via SW-DT.

Complete: In the Complete version, a SmartWire-DT is used for control wiring. There is no conventional control wiring. As there is an electronic tripping unit incorporated in the circuit breaker, it is possible to make a query and read the status of each individual parameter at any time via the SW-DT.

xEnergy Switchboards

XW Outgoing Sections Motor Control Center in Withdrawable Design

Max. current load and power loss for dropper bars in an XW section

Dropper bar:

Center-to-center distance between phases = 60mm

Rated current I_n = up to 1600A

Rated short-time withstand current I_{cw} = up to 80kA

Ie	Busbar cross-section	Degree of protection	Permitted continuous current I depending on ambient temperature and degree of protection of the distribution section			Power loss		
			25°C A	35°C A	50°C A	25°C W/m	35°C W/m	50°C W/m
A								
1000	1x40x10	IP31	1000	1000	1000	61	61	61
		IP42	1000	1000	1000	61	61	61
		IP55	1000	980	900	61	59	50
1600	2x40x10	IP31	1730	1600	1400	98	84	64
		IP42	1730	1600	1400	98	84	64
		IP55	1330	1300	1250	58	56	51

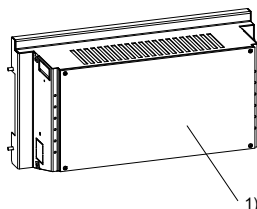
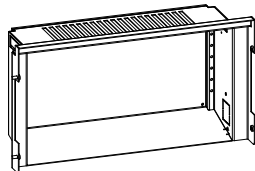
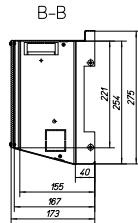
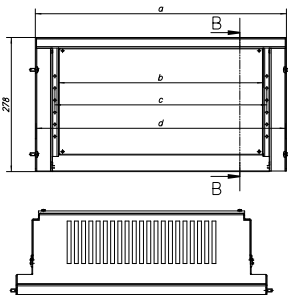
Short-circuit strength for dropper bars in an XW section

Ie	Busbar cross-section	Short-circuit strength	Max. distance between busbar supports center-to-center
		kA	mm
A			
1000	1x40x10	35/1s	375
		50/1s	225
		65/1s	225
1600	2x40x10	35/1s	35
		50/1s	225
		65/1s	225
		80/1s	225
		50/3s	225

Wiring module

- The wiring module is mounted in front of the main busbar.

Where necessary, the module can be equipped with an additional DIN rail so as to be able to conveniently accommodate electrical components with a DIN rail fixing. The module also offers the possibility to install a cable duct for any control wiring / cross-wiring of the system. The cable duct itself is made of plastic-coated metal. Various holes or pre-punched areas are included both in the cable duct and in the wiring module to ensure convenient wiring of the system. The rear of the module is planked with an additional insulating partition of 3mm (see fig. 1).



	a	b	c	d
W600	520	424	439	517
W800	720	624	639	717
W1000	920	824	839	817

1) Additional insulating partition at the rear



XW – The new solution for xEnergy.

Benefits for the panel builder:

- Switchgear assemblies with design verification according to IEC/EN 61439
- Tested and safe assembly of switchgear and enclosures
- A cost-effective and flexible solution for all applications
- Delivery as flat-pack or pre-assembled
- Software tools and training for easy planning and execution
- Plain modular system
- Optimum safety
- Professional support

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For more information, visit www.eaton.com.

Published by:
Eaton Industries (Austria) GmbH
Scheydgasse 42
A-1215 Vienna

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Subject to technical modifications. No responsibility is taken for misprints or errata.
Catalogue xEnergy EN
FK4810-1189EN
Printed in Austria (05/14)
Graphic design: SRA, Werbeweber, Schrems
Print:
Article No.

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